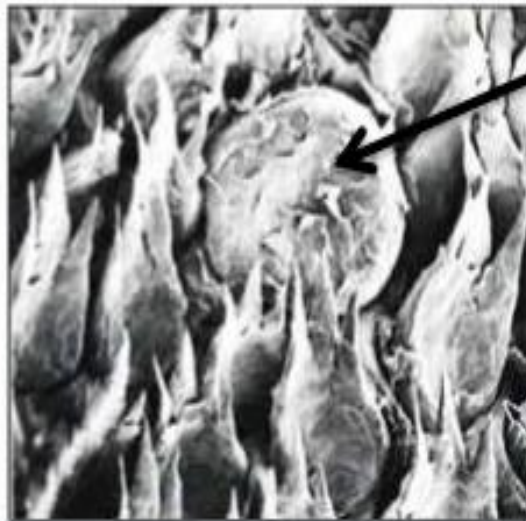
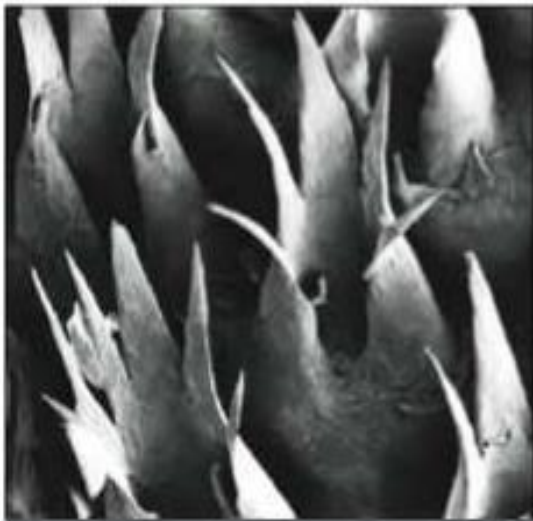
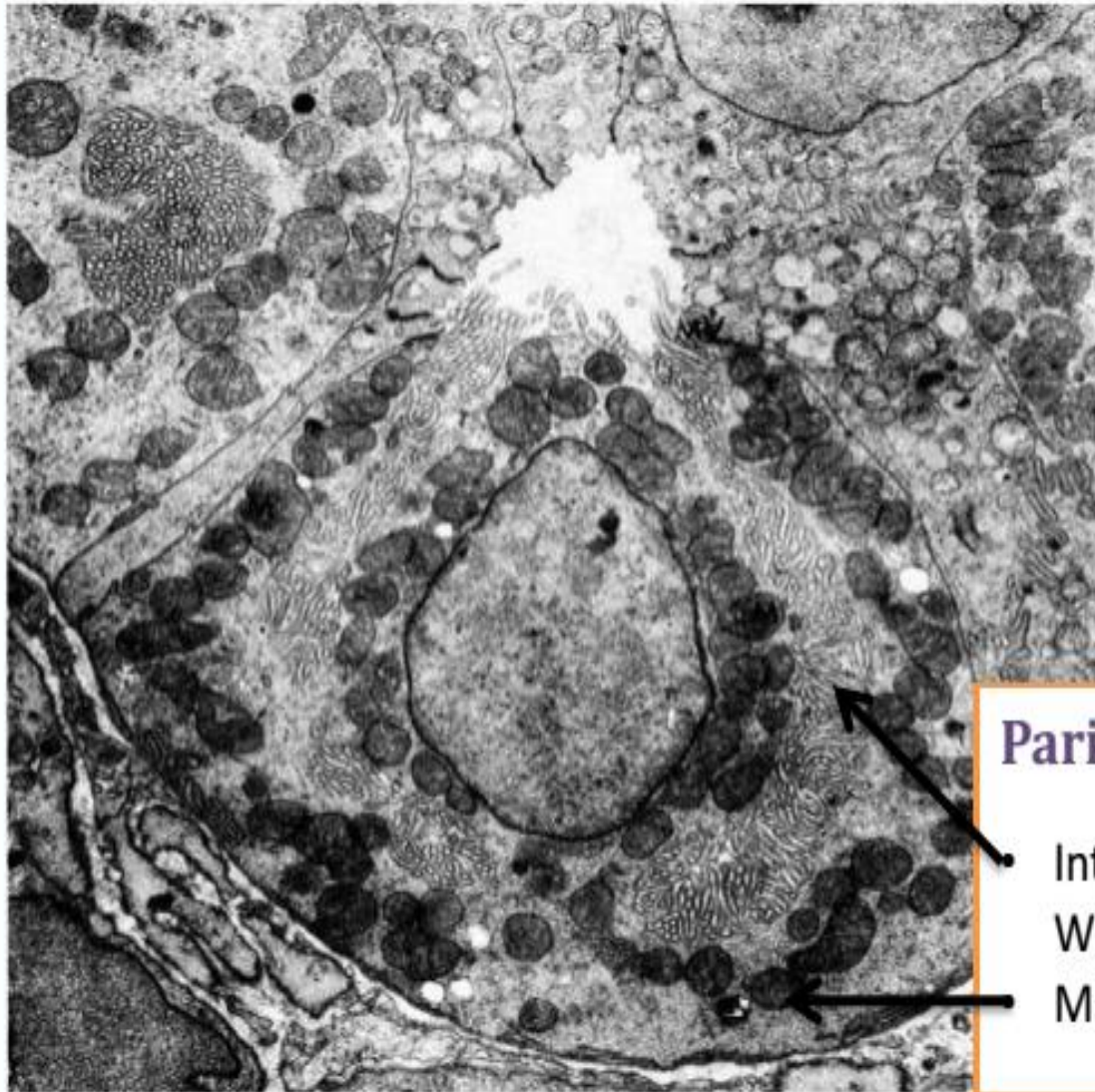


Scanning electron micrograph
[SEM] showing:

Filiform papilla on tongue

Fungiform papillae

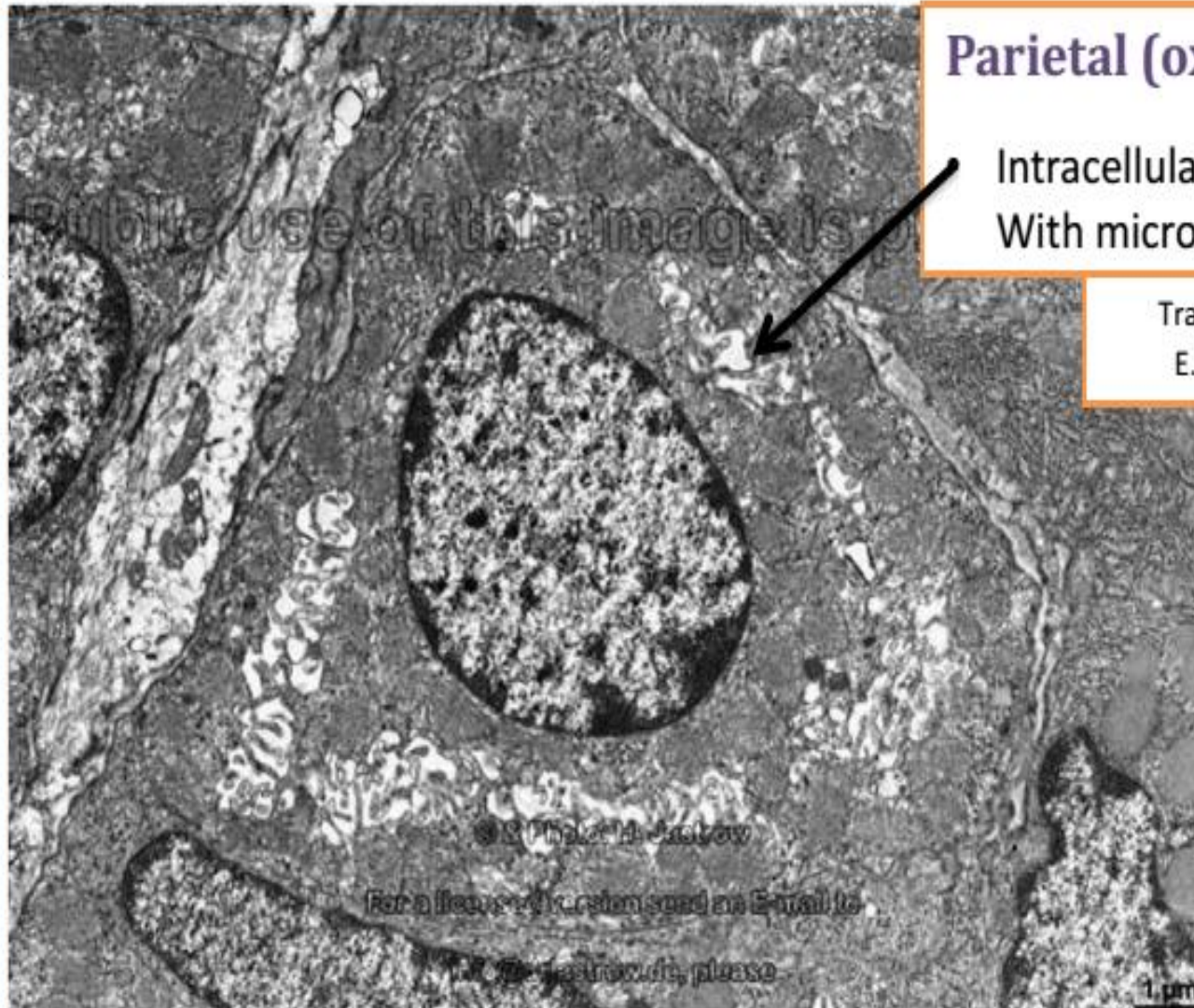




Transmission
E.M.[TEM]

Parietal (oxyntic) cell

- Intracellular canaliculi
With microvilli
- Mitochondria (numerous)



Parietal (oxyntic) cell

Intracellular canaliculi
With microvilli

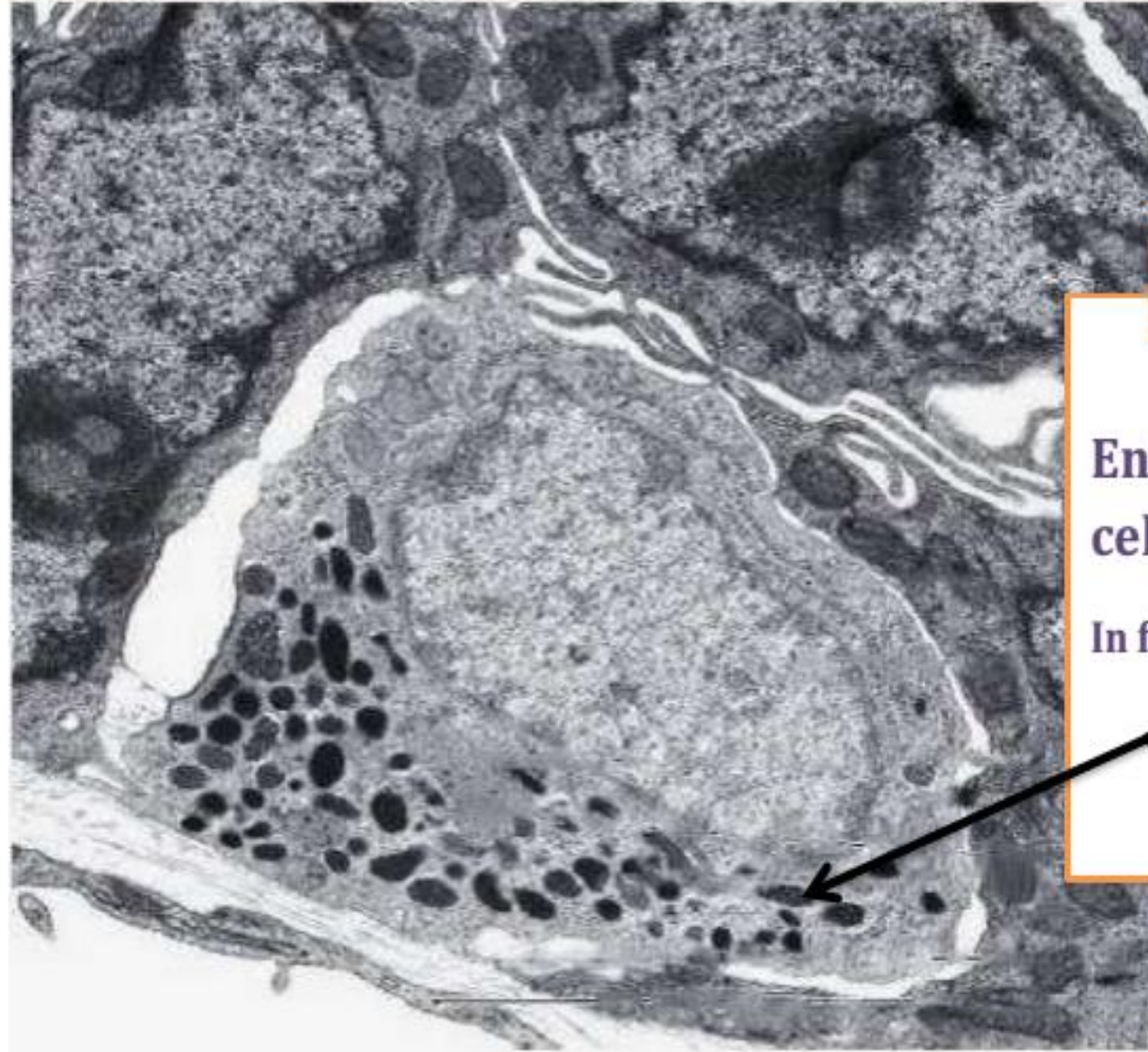
Transmission
E.M.[TEM]

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1 μm



Transmission
E.M.[TEM]

**Enteroendocrine
cell [closed type]**

In fundic gland

Basal electron
dense granules

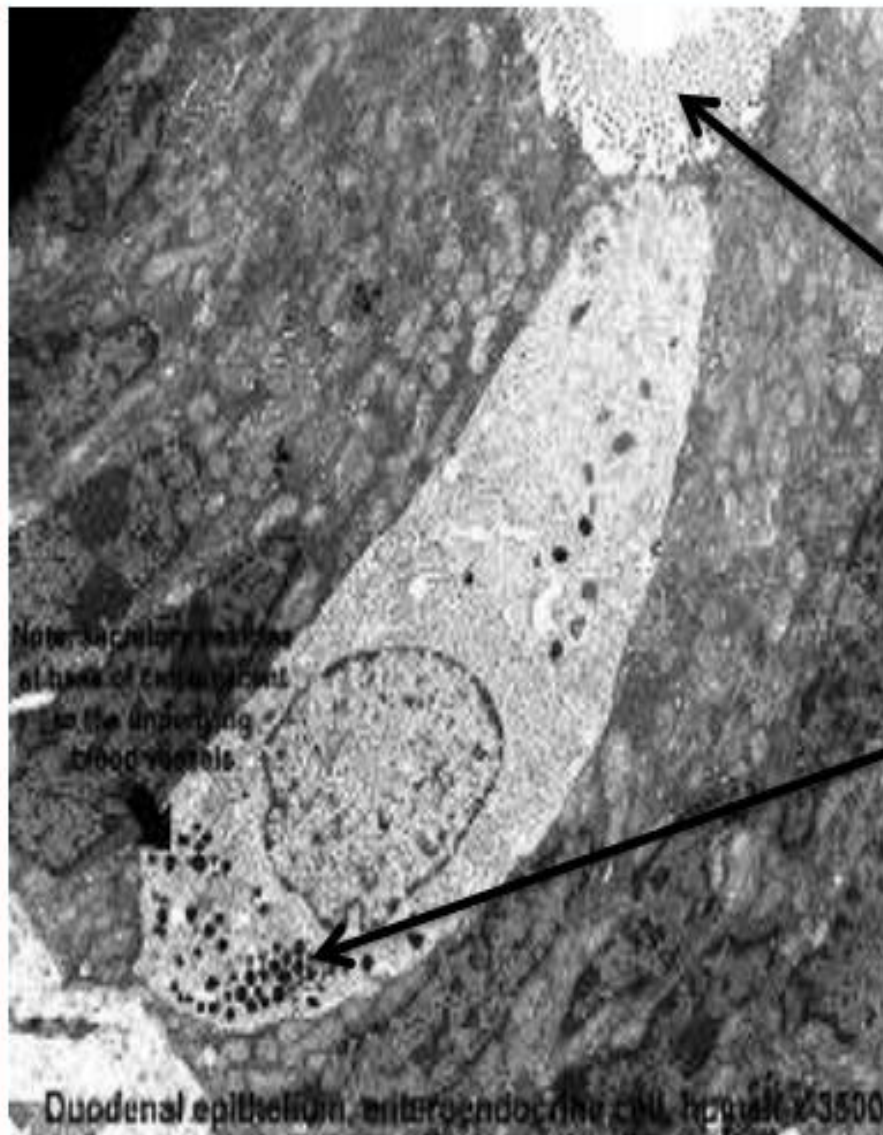
Transmission
E.M.[TEM]

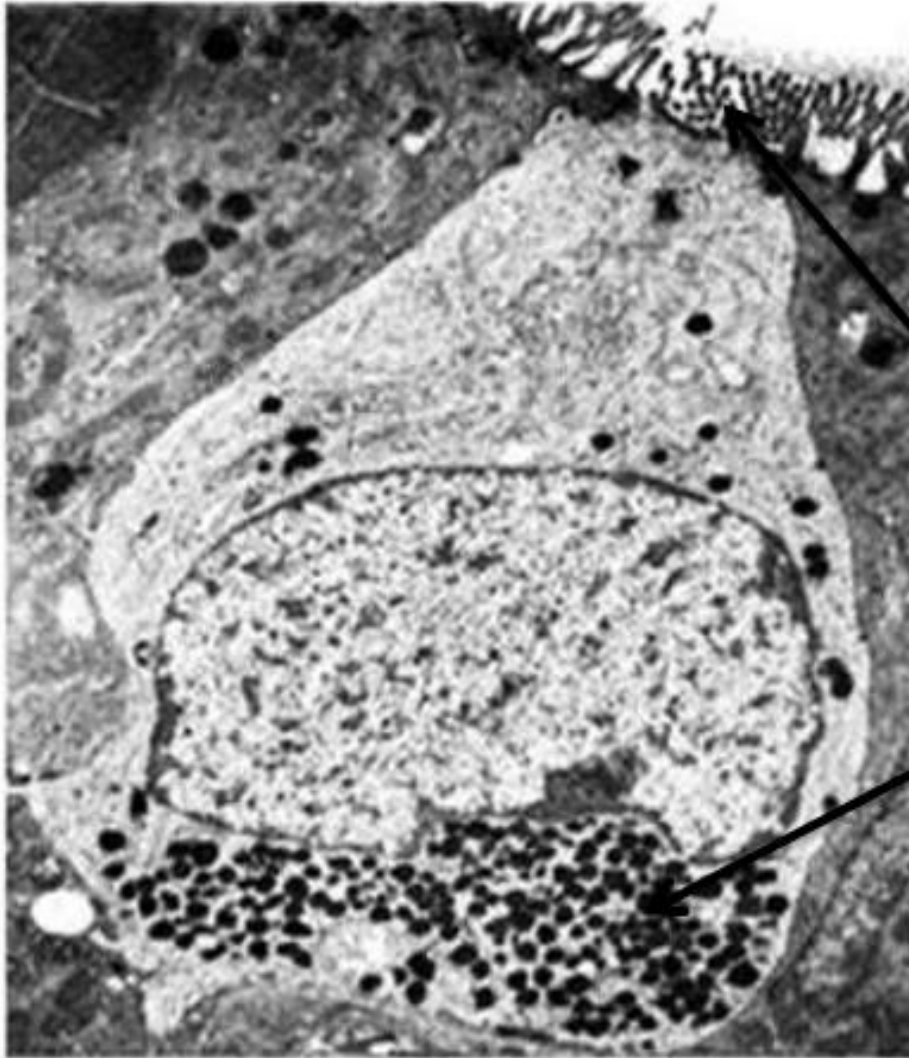
Enteroendocrine cell

Open type

Microvilli of
neighboring cells

Basal electron
dense granules





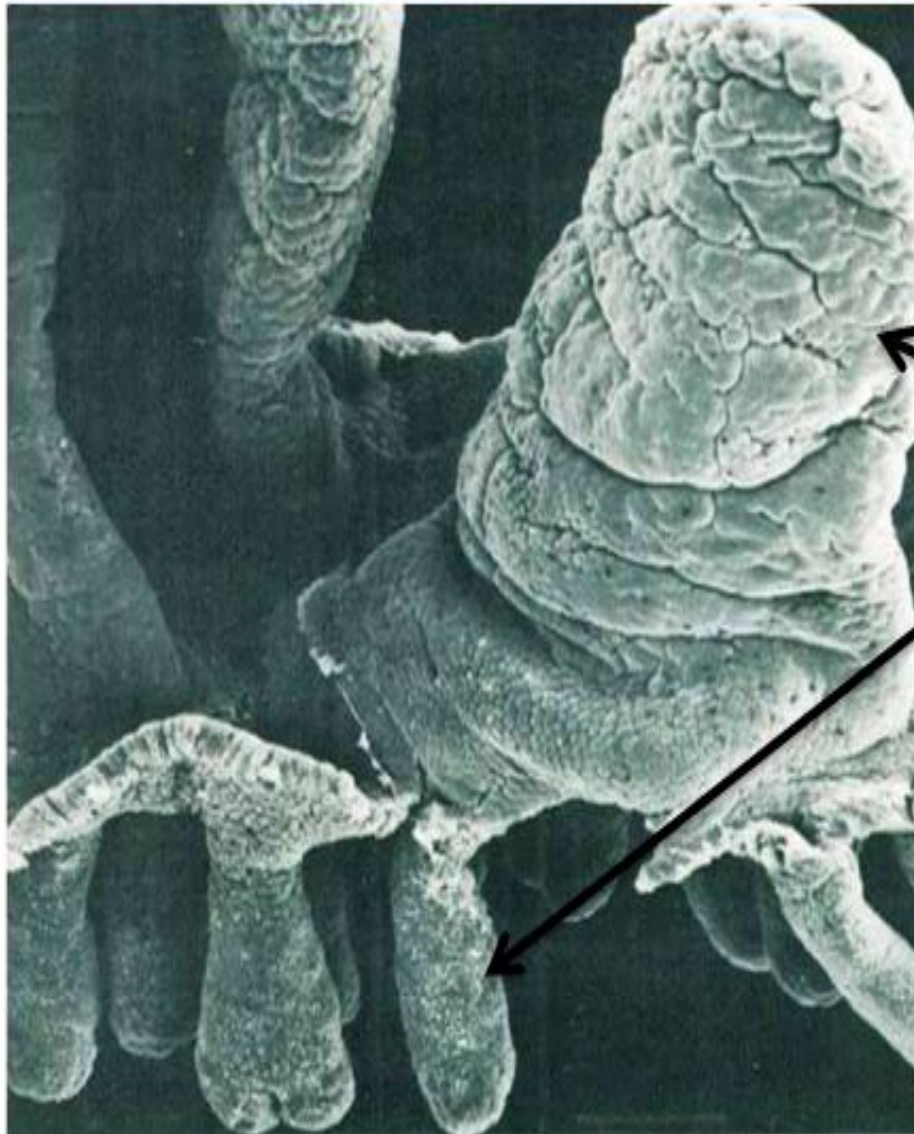
Transmission
E.M.[TEM]

Enteroendocrine cell

Open type

Microvilli of
neighboring cells

Basal electron
dense granules

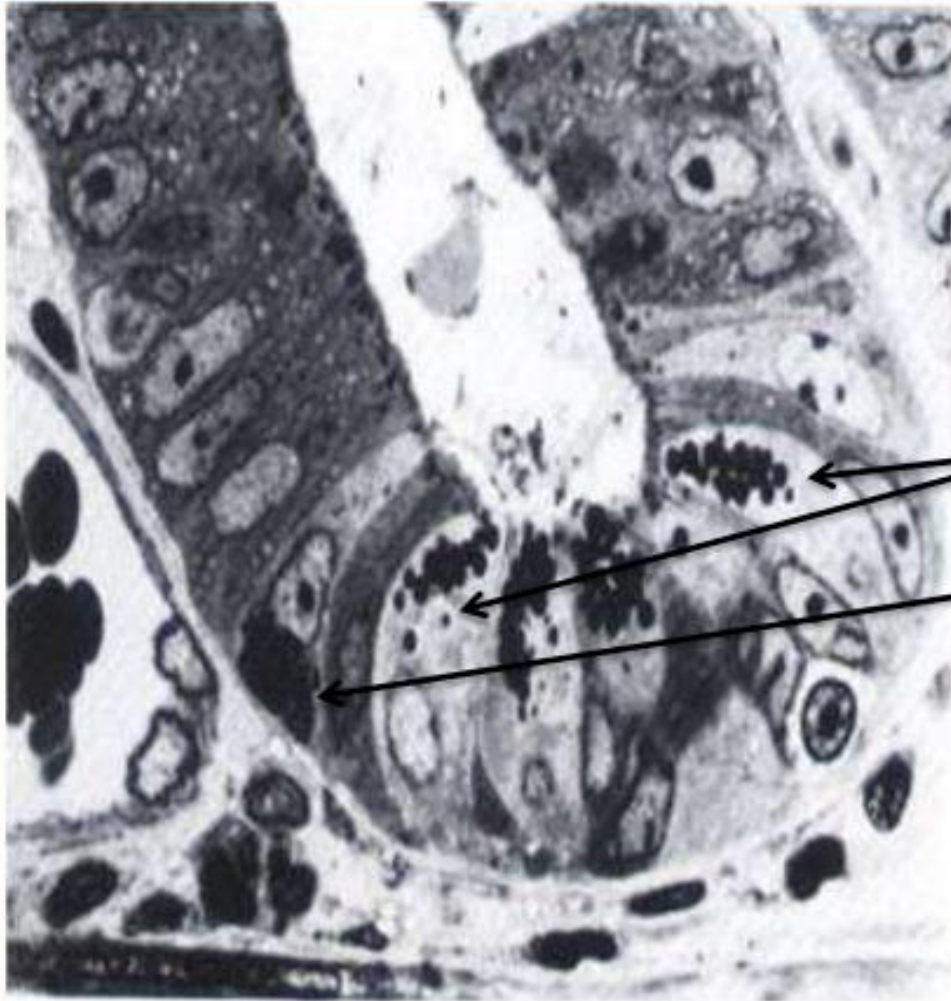


[SEM]:

Of Part of small intestinal mucosa
showing:

- Broad , tall intestinal villi
projecting above the surface
- Basal crypts invaginated
from the surface





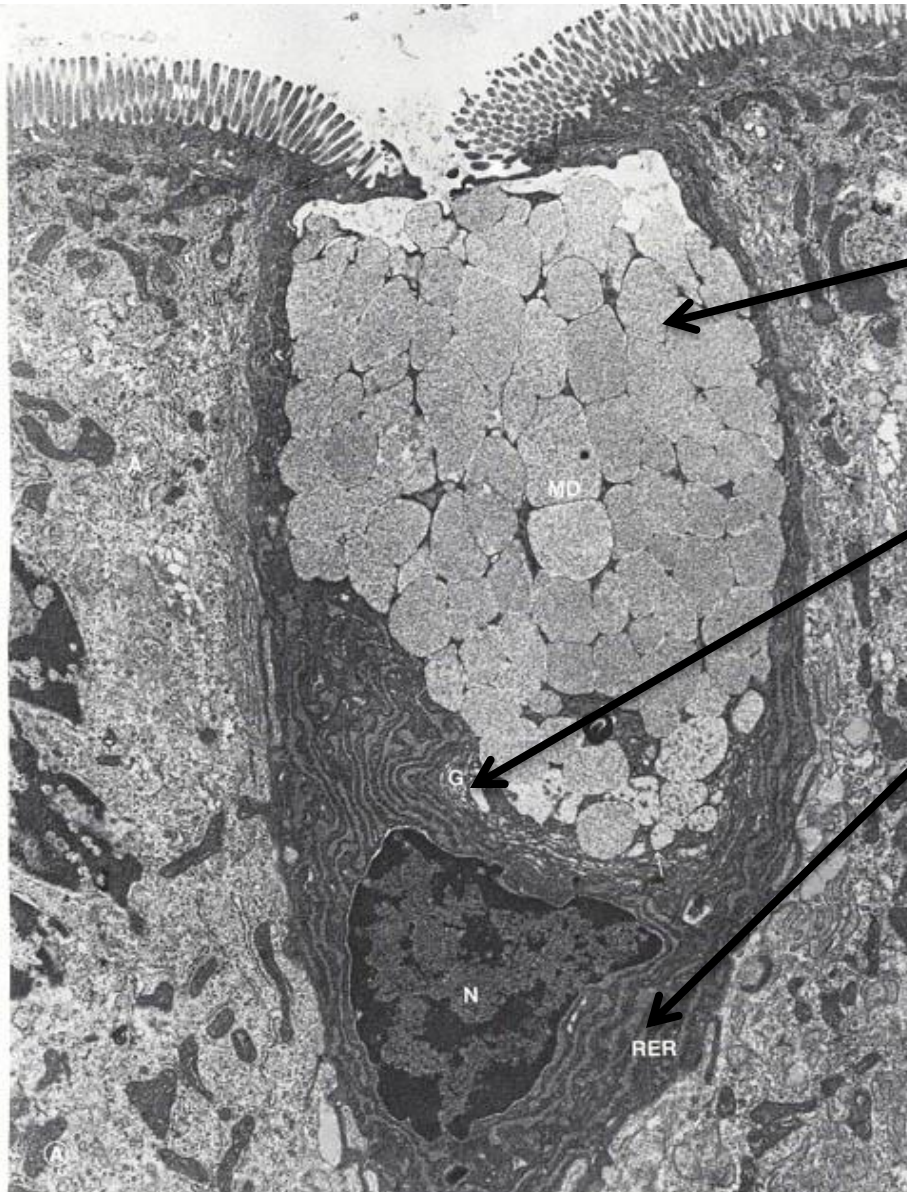
[TEM] showing

part of small intestinal crypt:

Paneth cells with apical electron dense granules

Enteroendocrine cells with basal electron dense granules

Goblet cell (“TEM”)



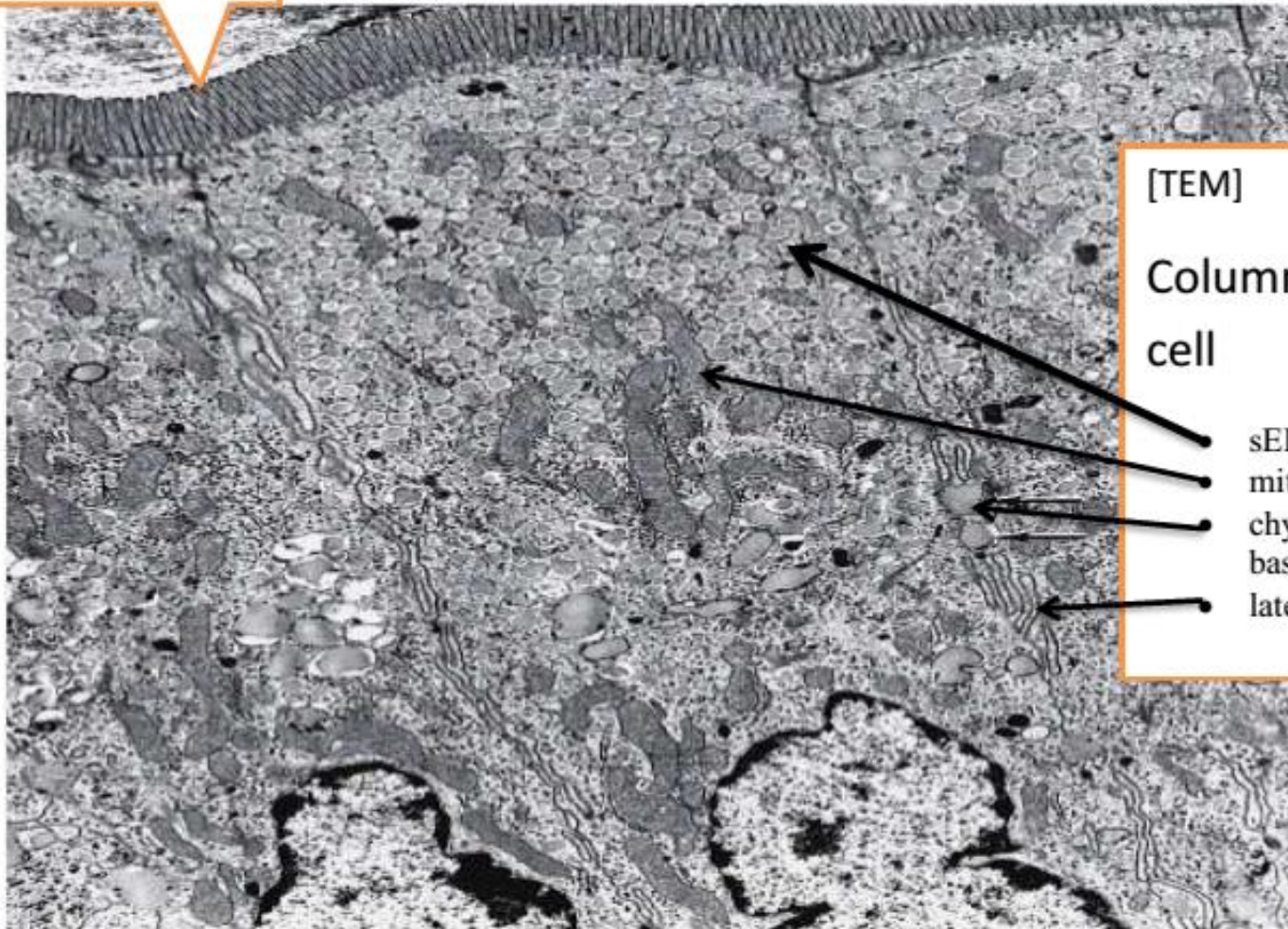
•mucous granules

•Golgi

•rER

Secrete neutral mucous
More numerous in large
intestine

microvilli



[TEM]

Columnar absorptive
cell

- sER containing fat
- mitochondria
- chylomicrons released at
baso lateral surface
- lateral interdigittion

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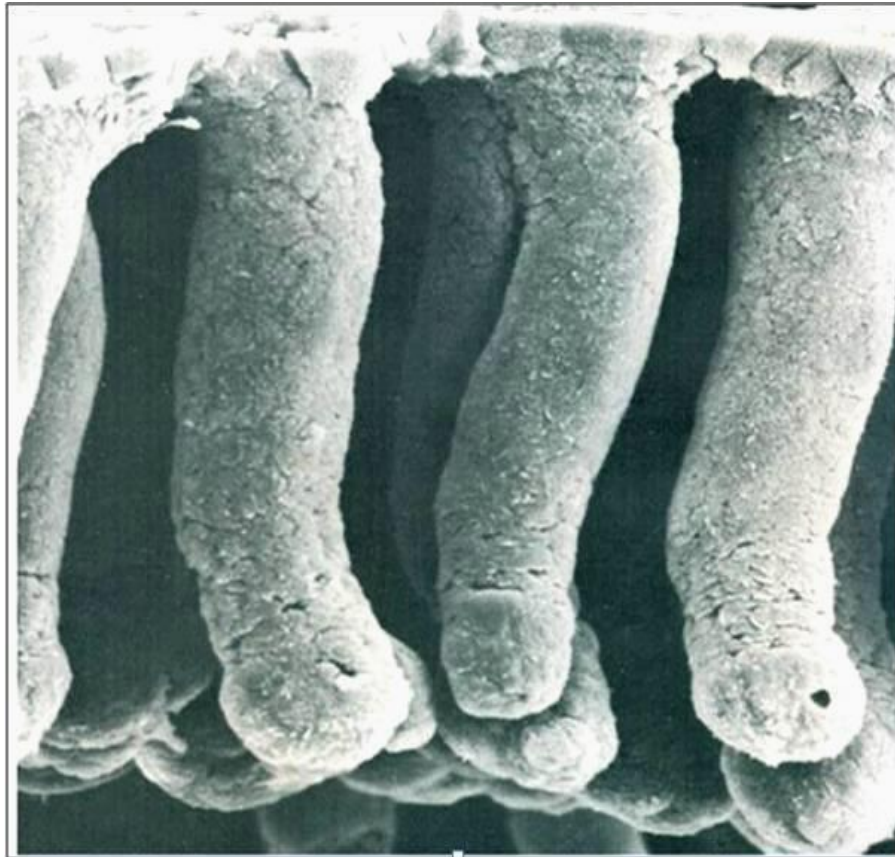


[TEM] showing:

Columnar absorptive cell
of colon

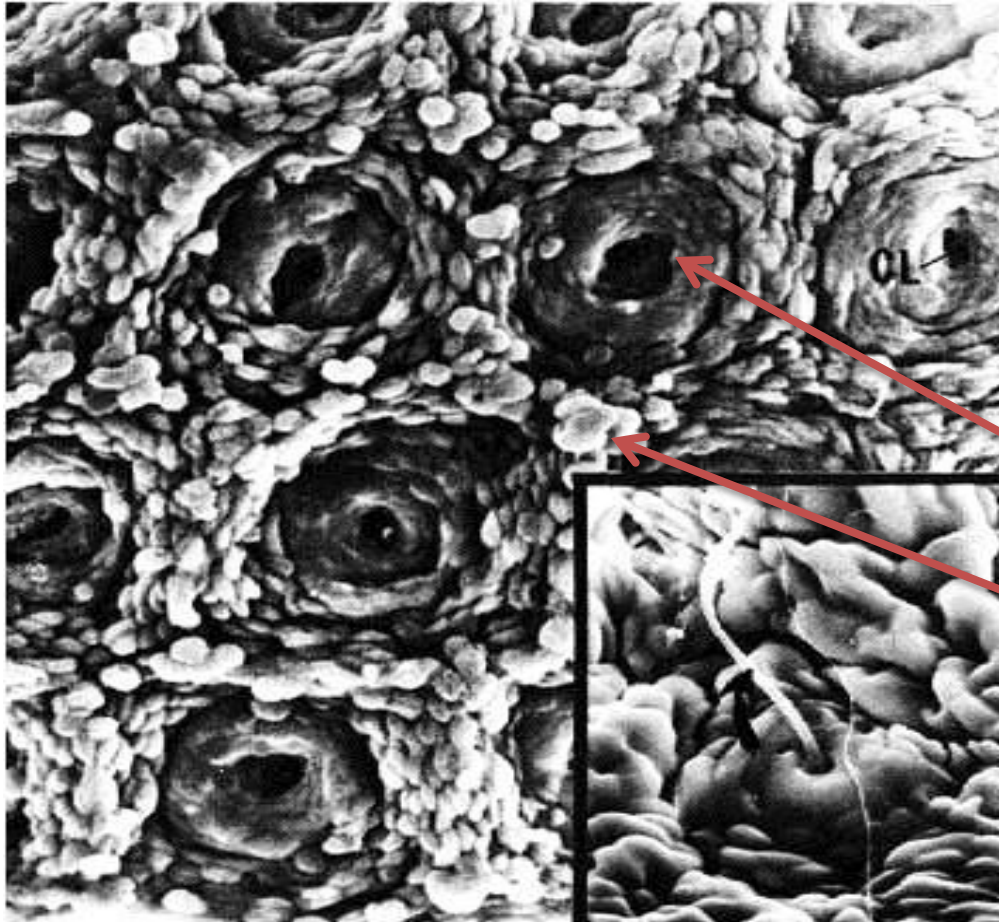
- Apical microvilli
- Basolateral infoldings

Golgi



[SEM] showing part of large intestinal mucosa:

Long crypts perpendicular to the surface

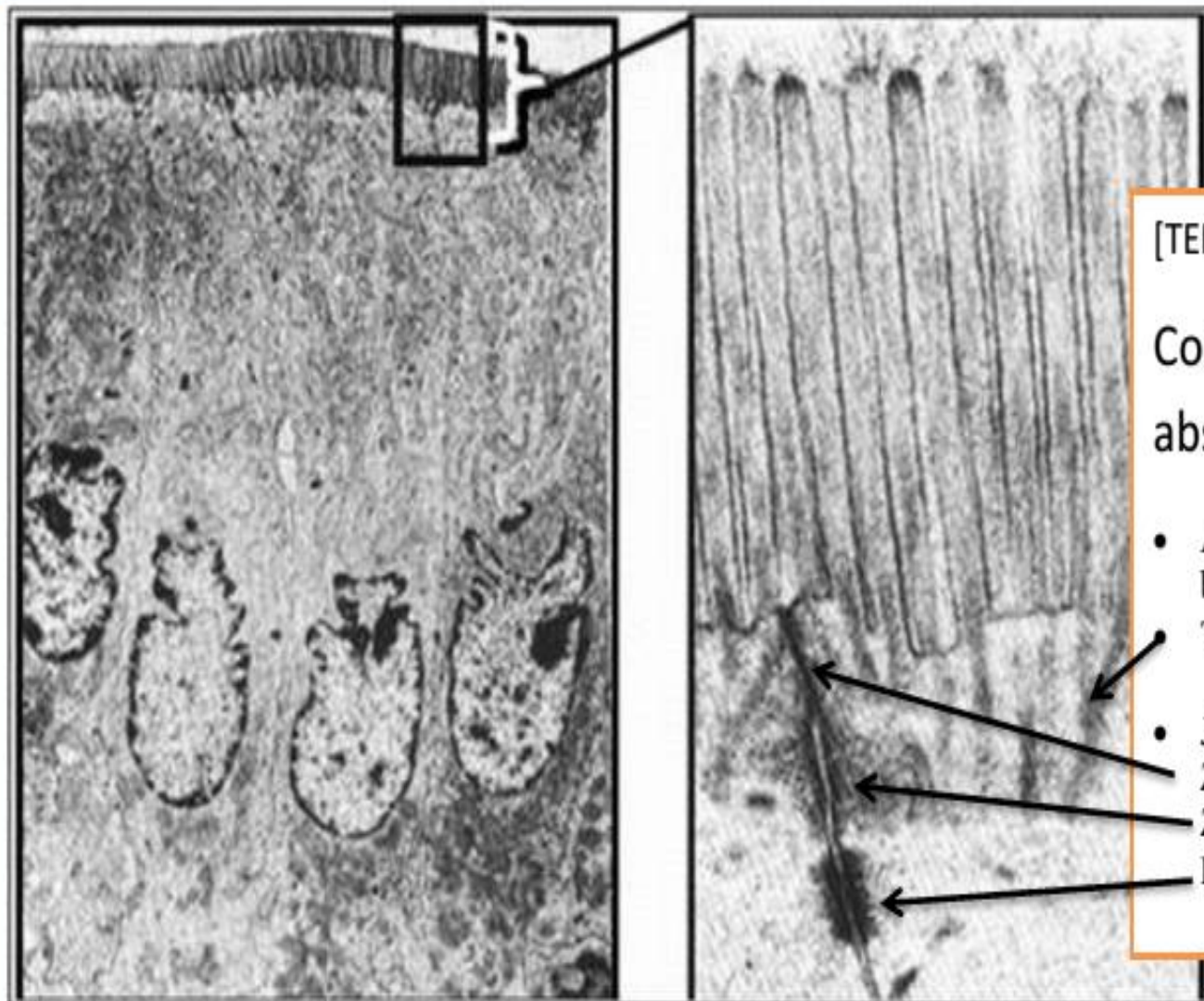


[SEM]

Large intestine crypts

Opening of crypt

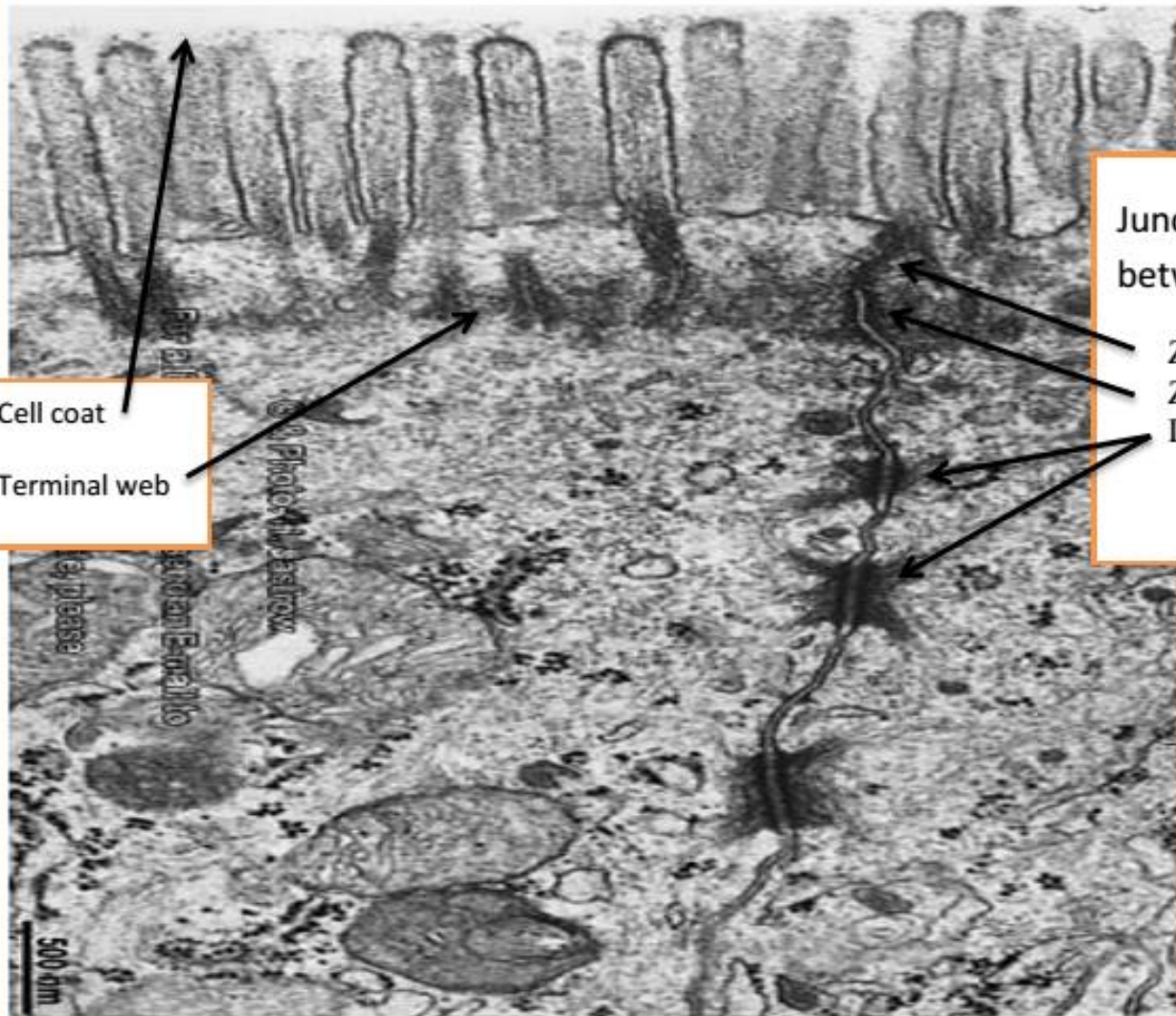
Goblet cells



[TEM] showing:

Columnar absorptive cell

- Apical microvilli brush border
- Terminal web
- Junctional complex:
 - Zonula occludans
 - Zonula adherens
 - Desmosome



Cell coat

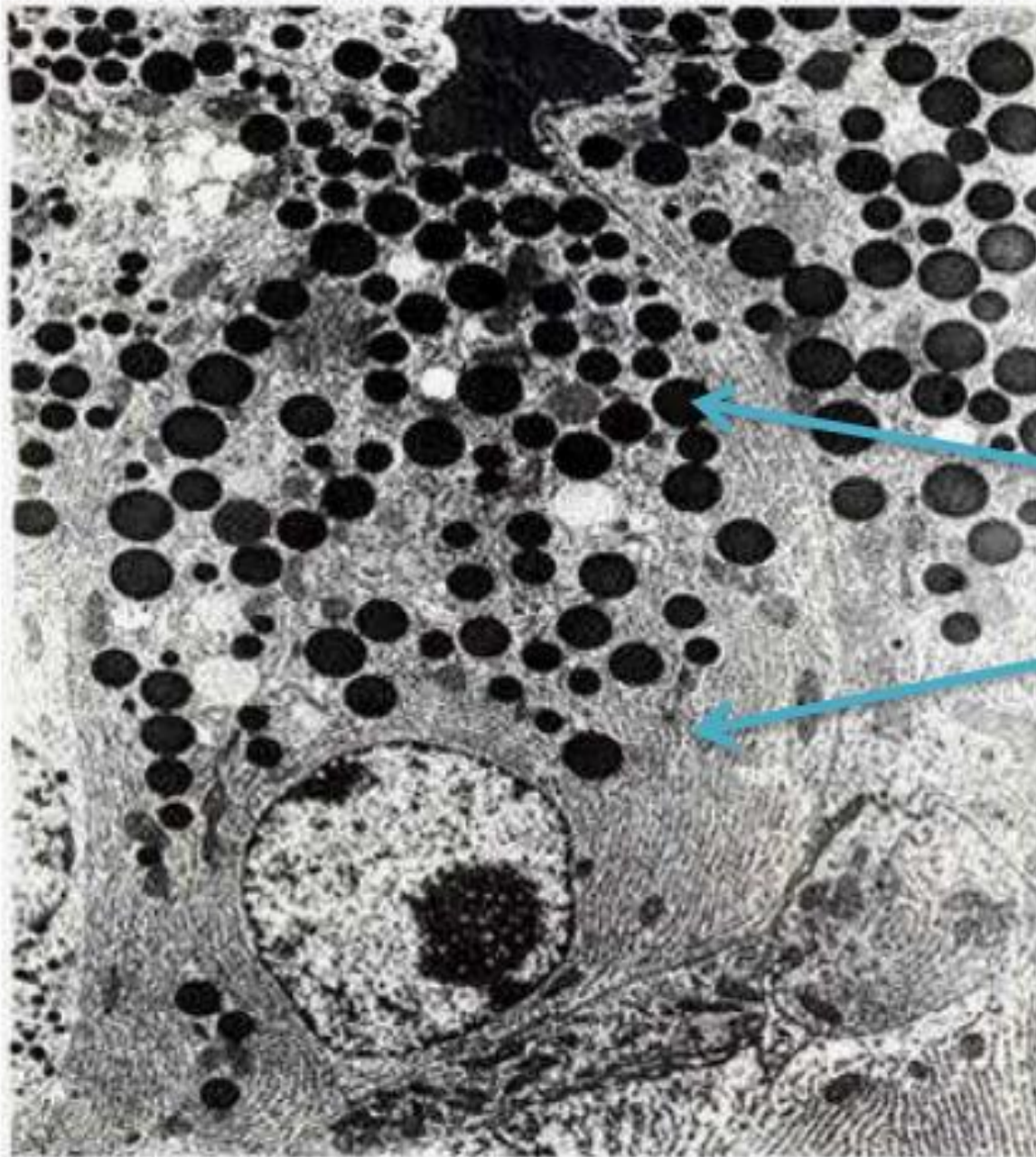
Terminal web

Junctional complex
between 2 enterocytes

Zonula occludans

Zonula adherens

Desmosomes

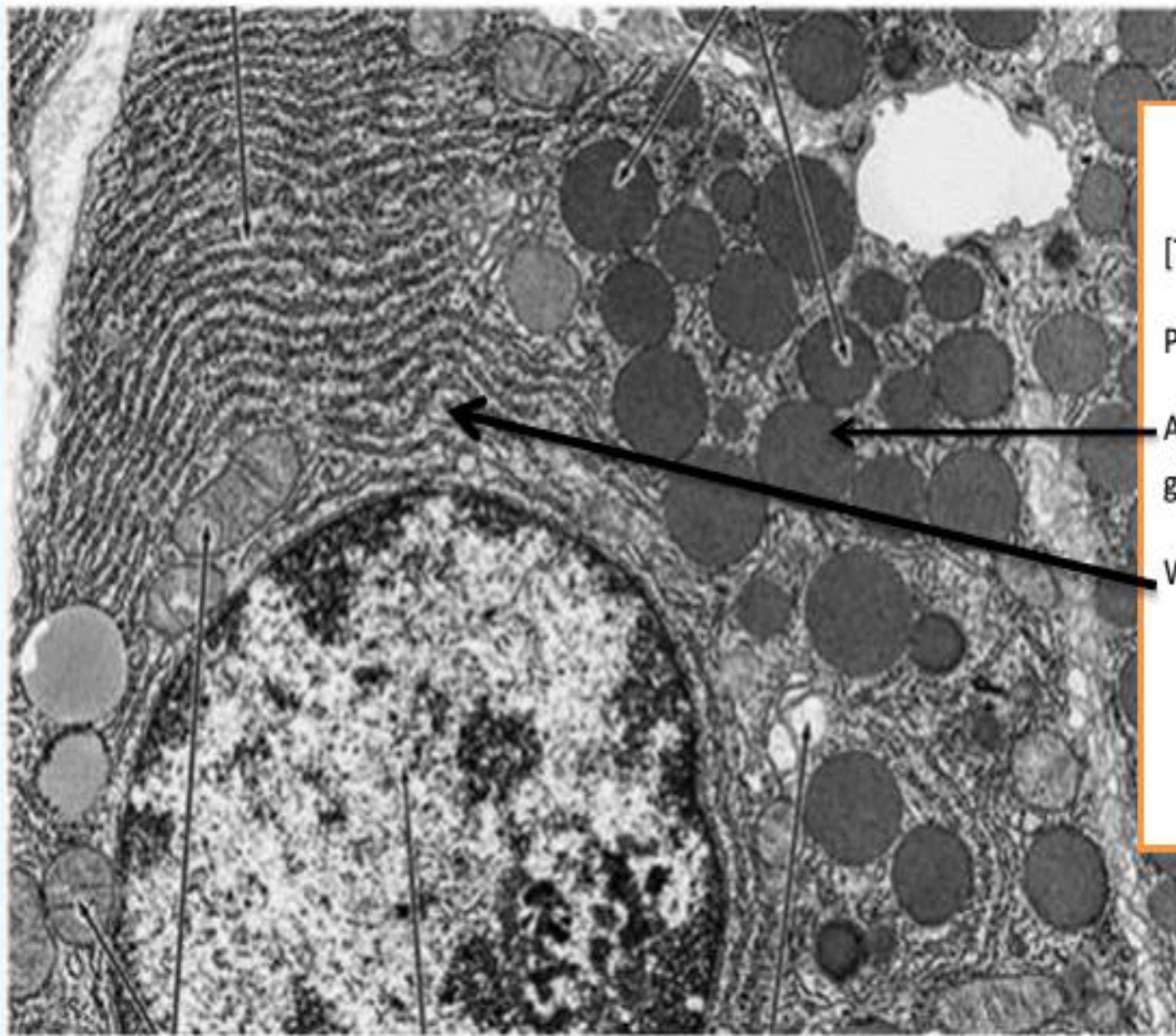


[TEM] showing:

Pancreatic acinus

Apical electron dense granules

Well developed rER



[TEM] showing:

Pancreatic acinus

Apical electron dense granules

Well developed rER

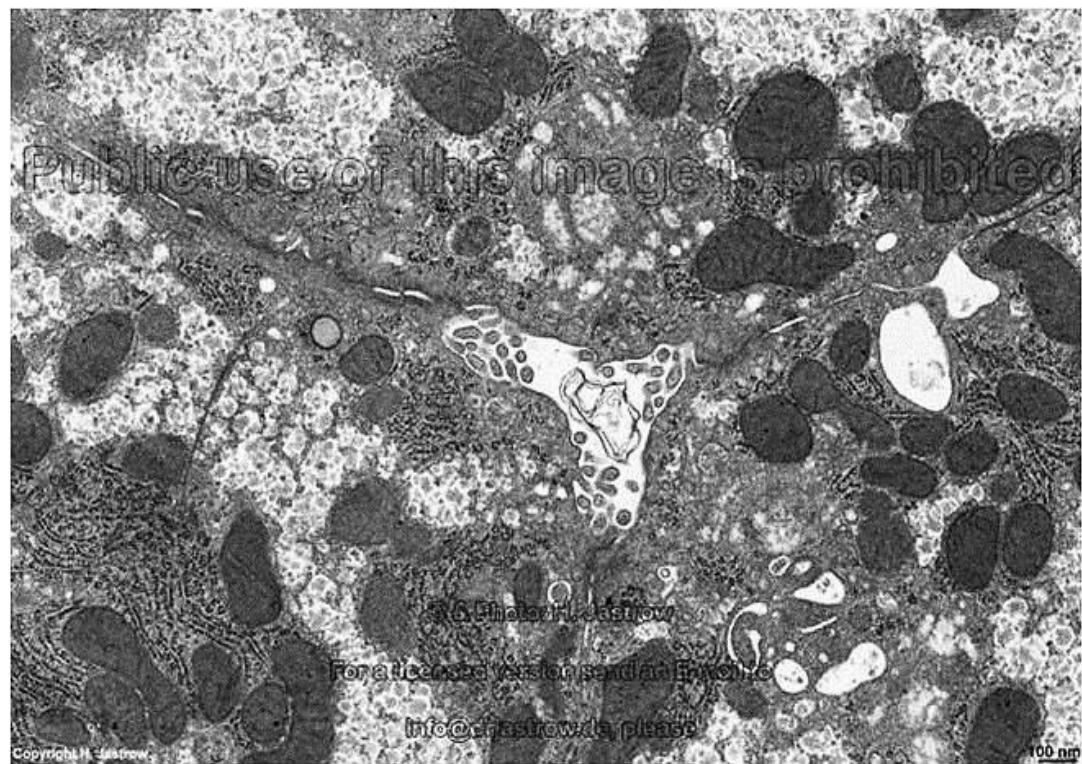


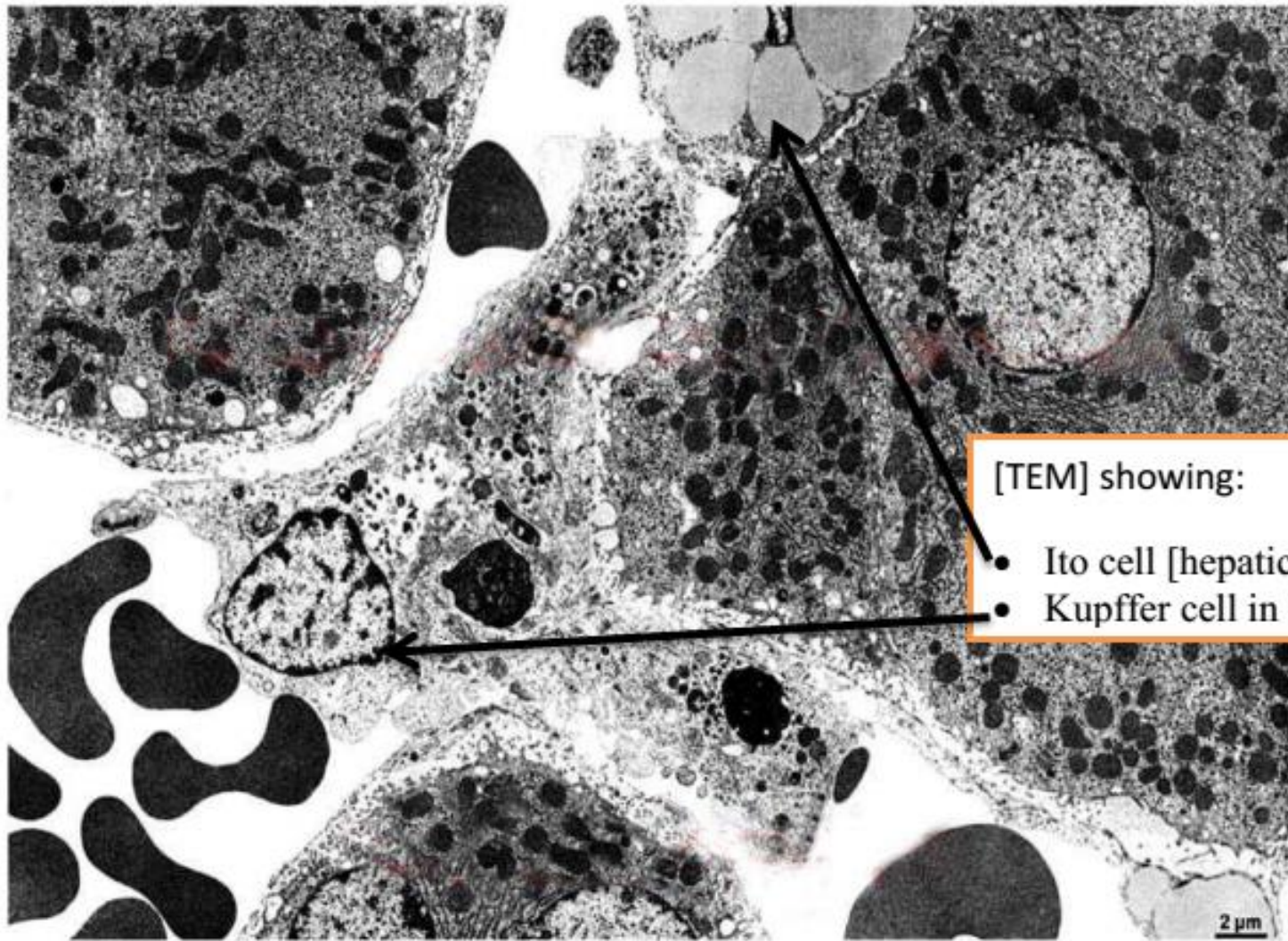
[TEM] showing :

Bile canaliculus

Tight junction

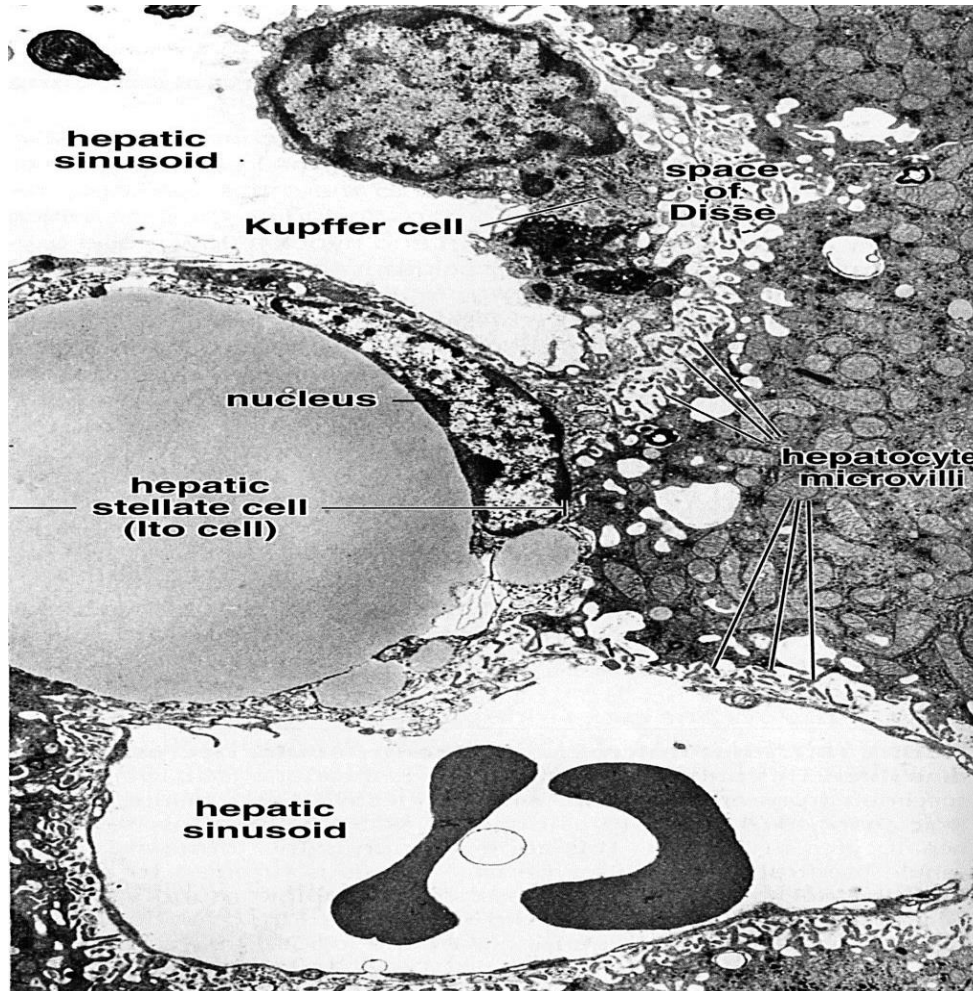
microvilli

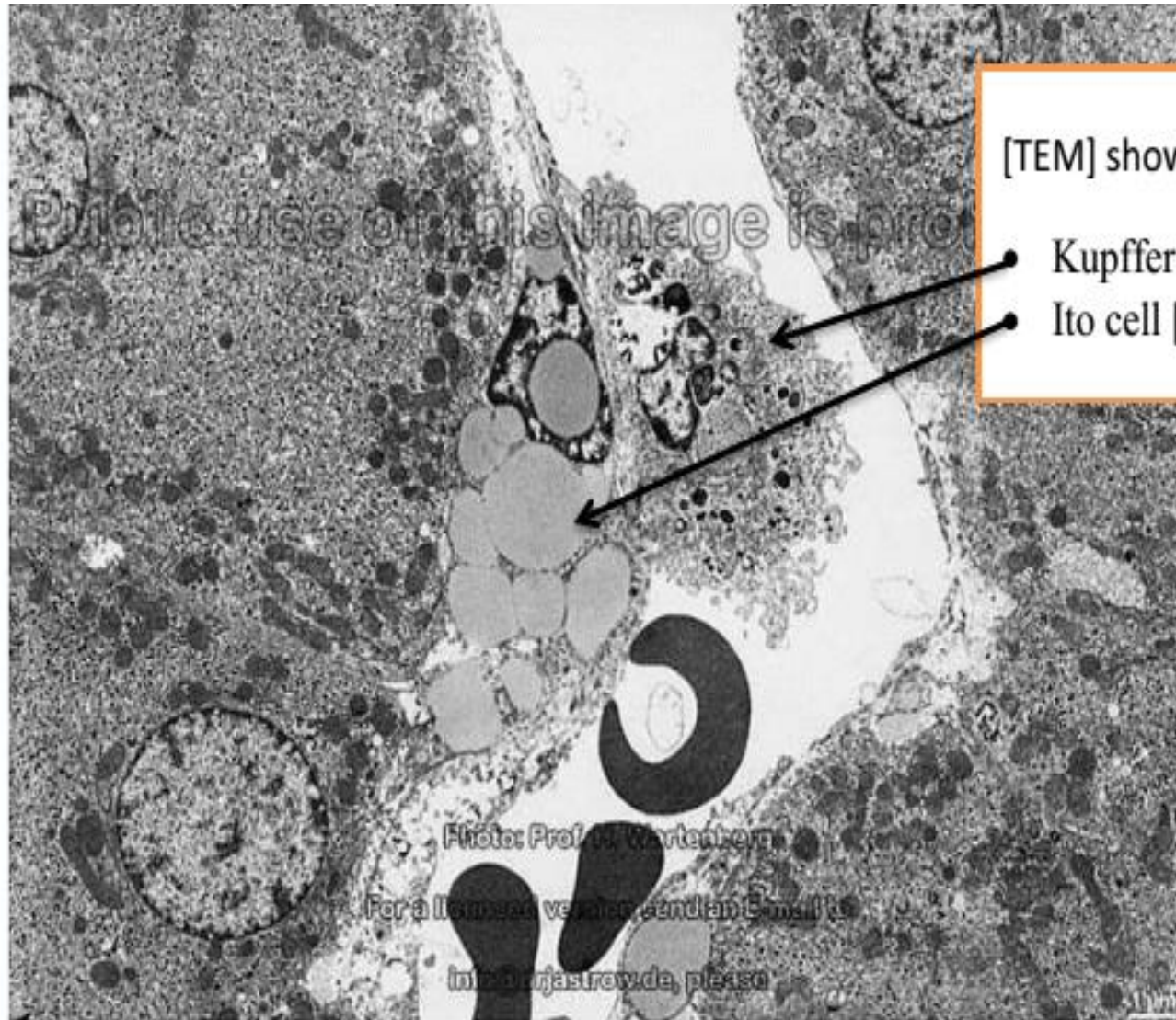




[TEM] showing:

- Ito cell [hepatic stellate cell]
- Kupffer cell in liver sinusoid





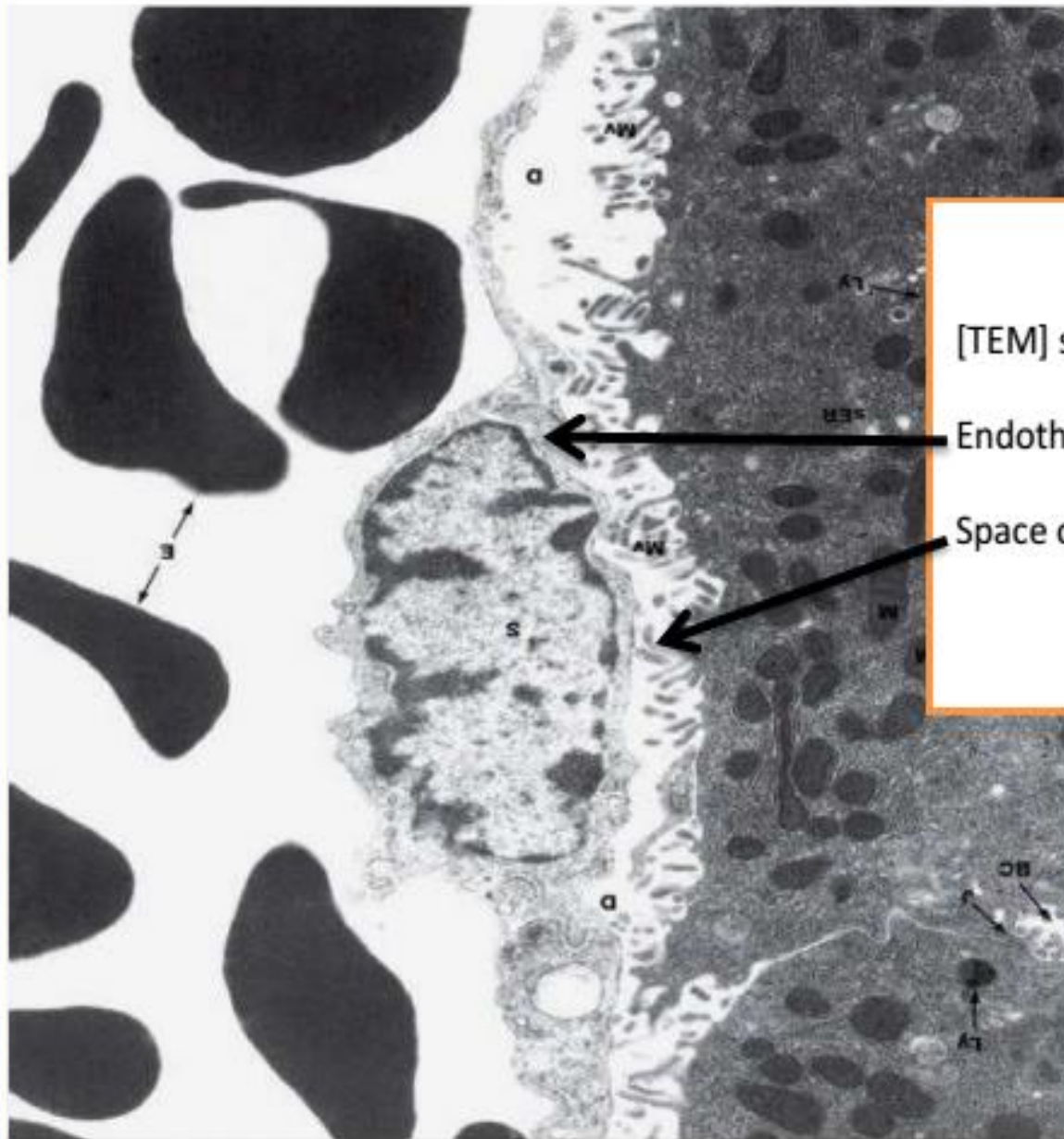
[TEM] showing:

- Kupffer cell in liver sinusoid
- Ito cell [hepatic stellate cell]

Photo: Prof. Dr. Wartenberg

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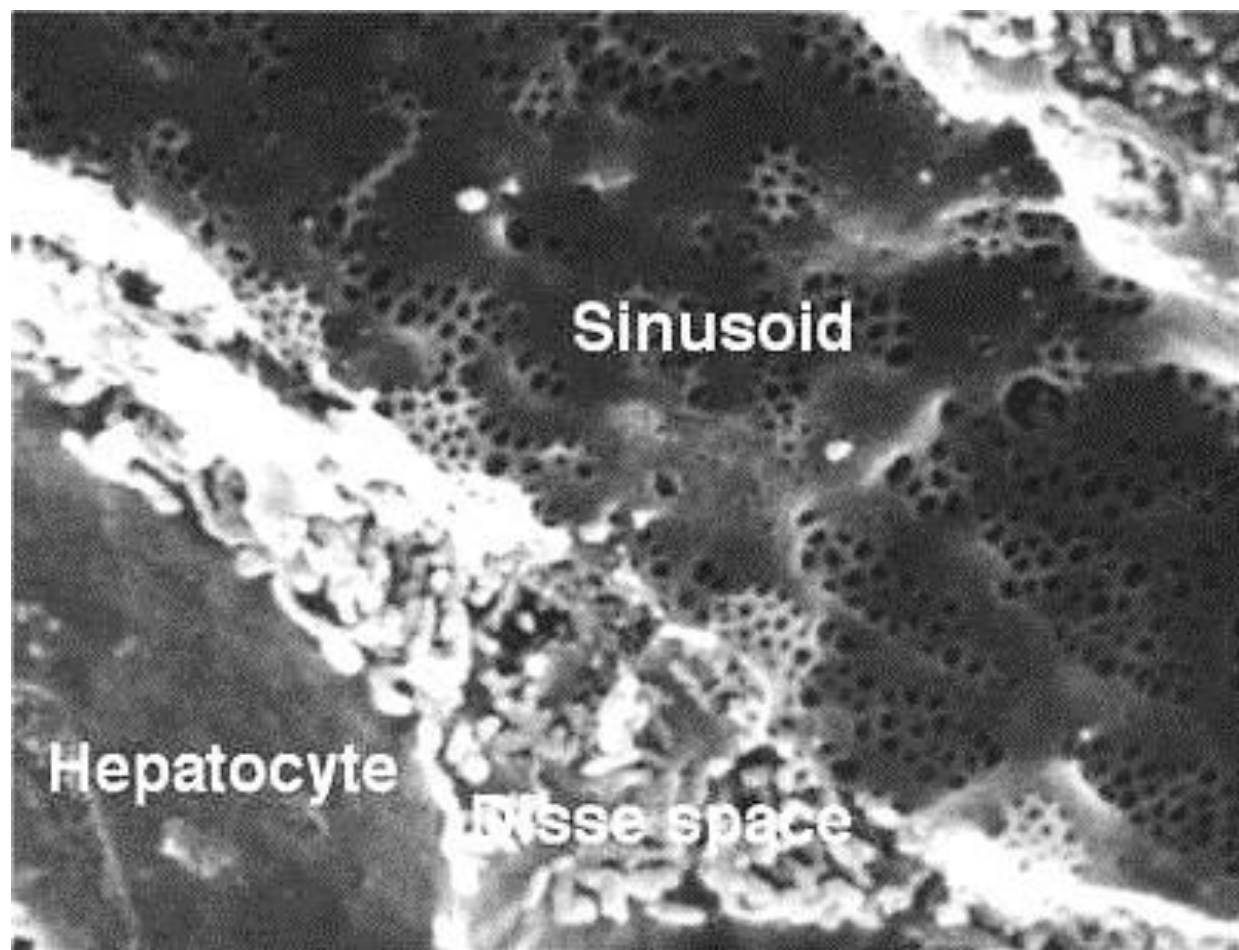
info@njastrow.de, please

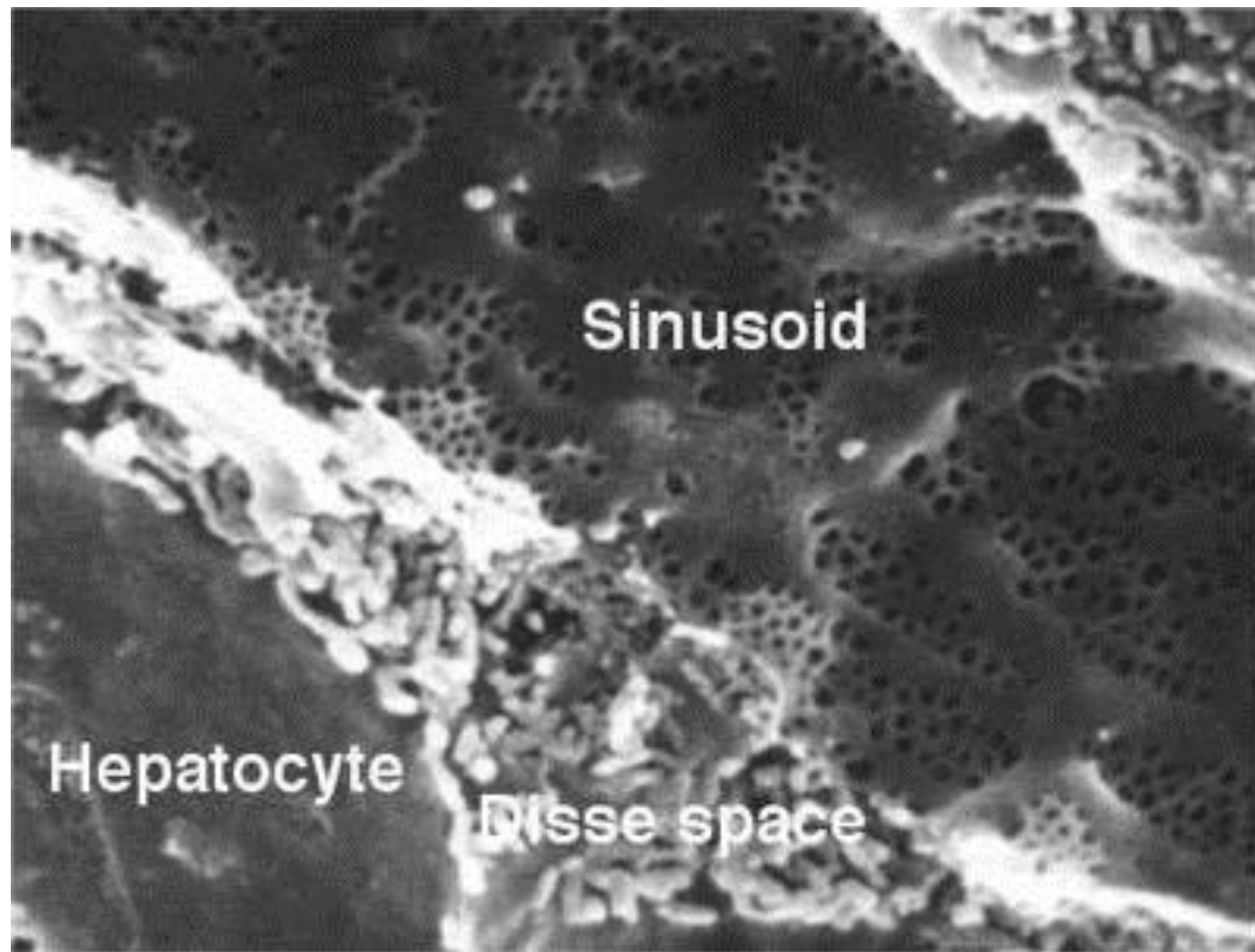


[TEM] showing

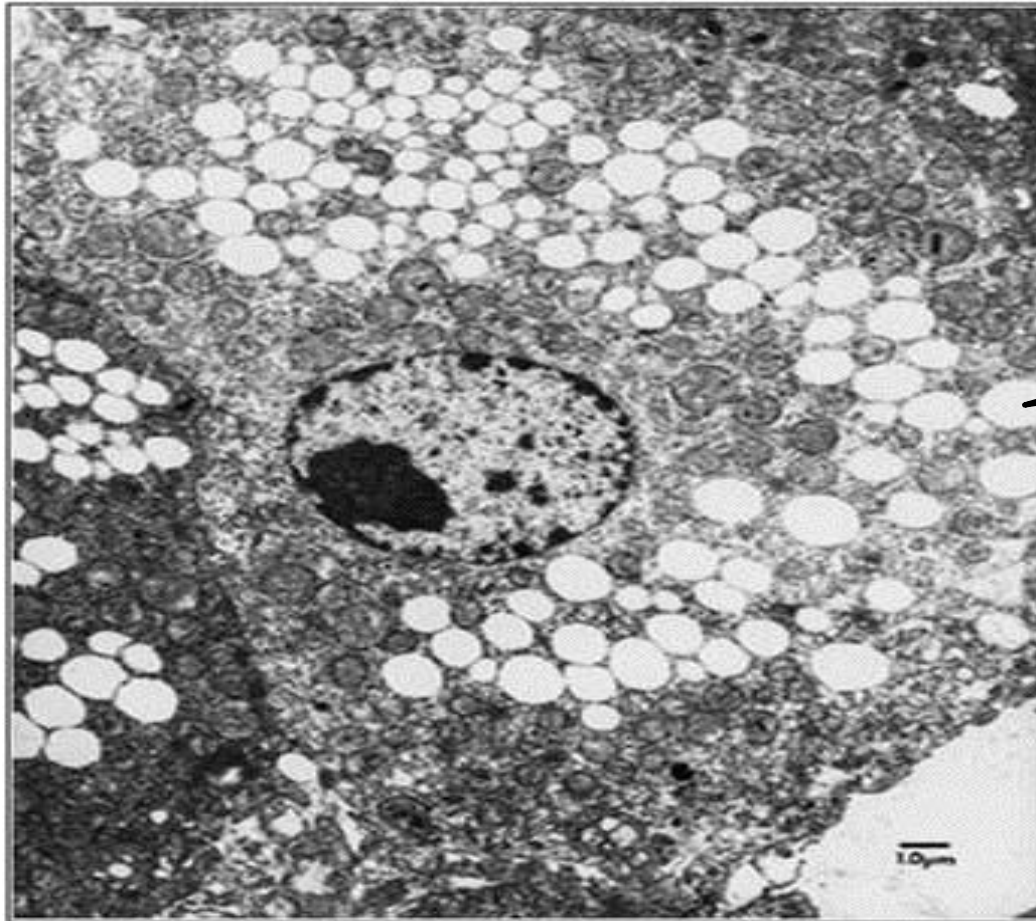
Endothelial cell lining liver sinusoid

Space of Disse containing microvilli



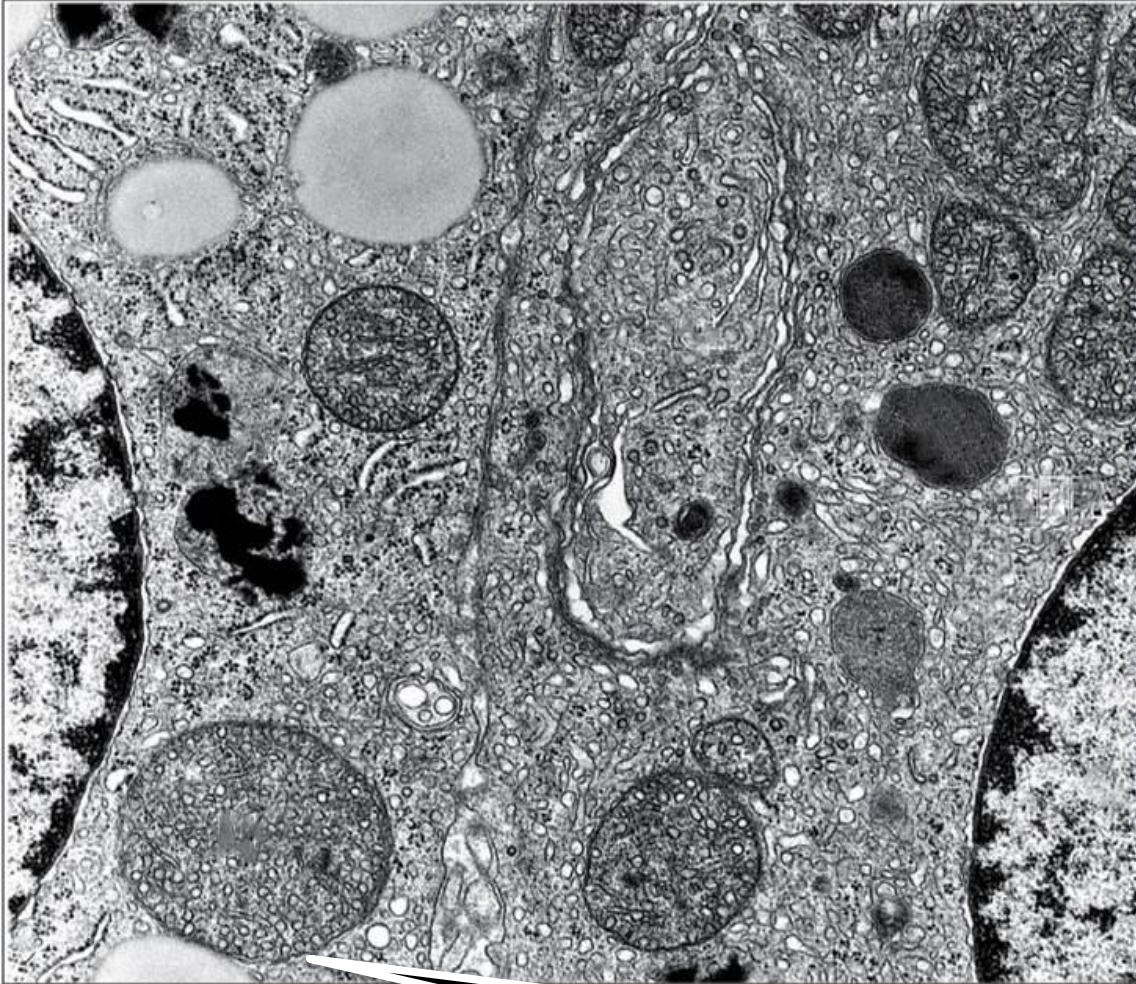


TEM of zona fasciculata cells



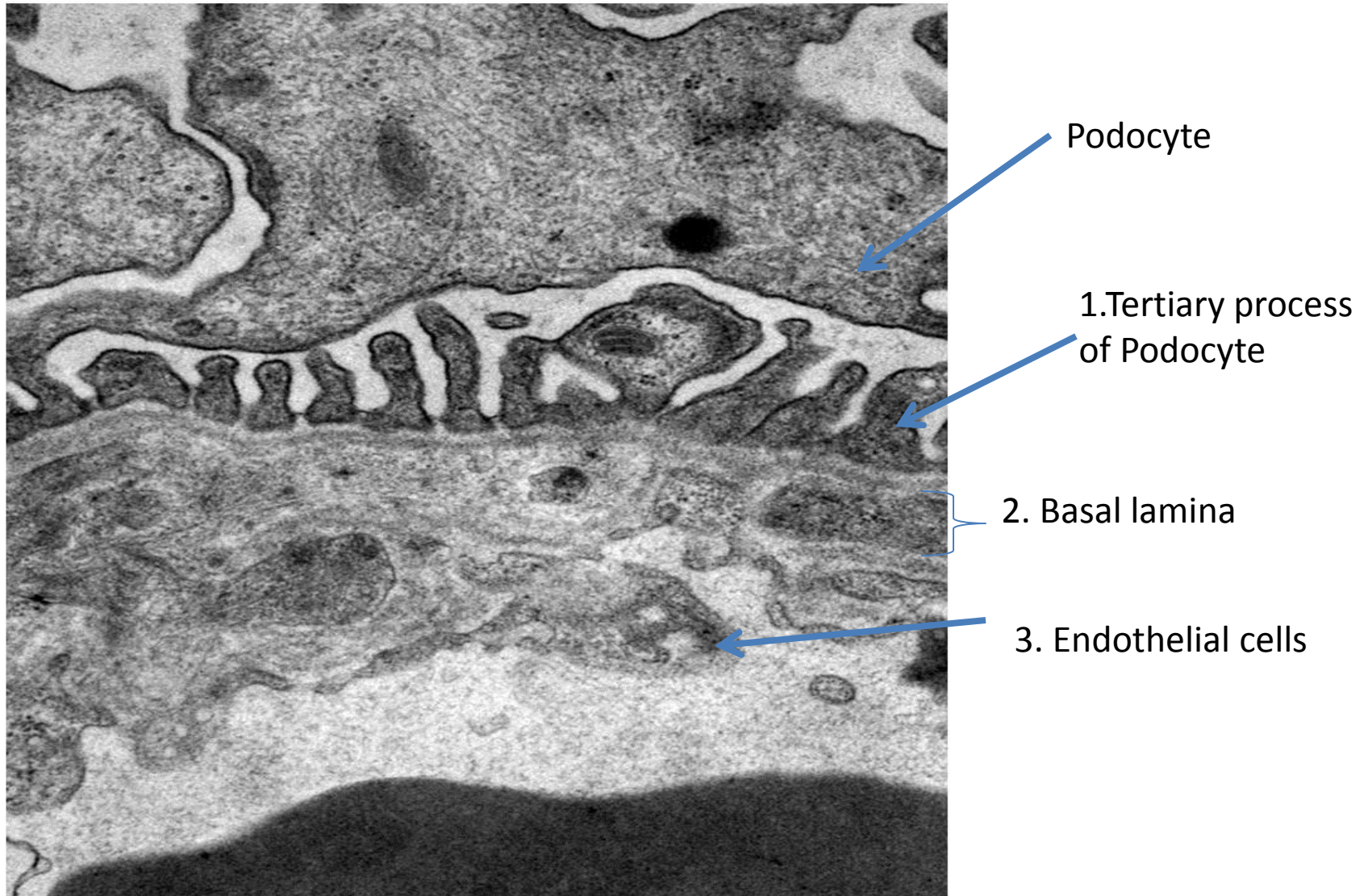
Numerous lipid droplets

Steroid forming cells

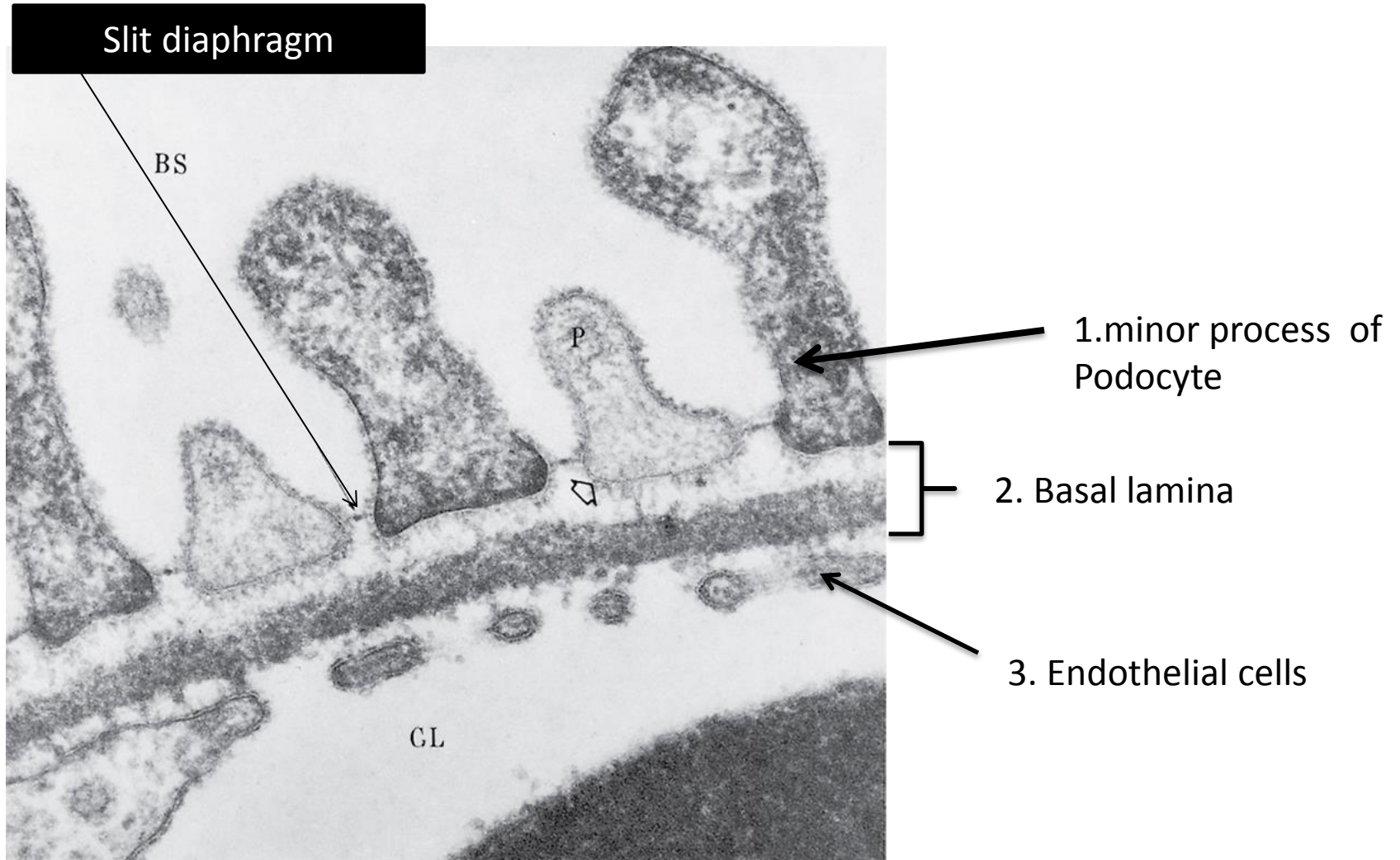


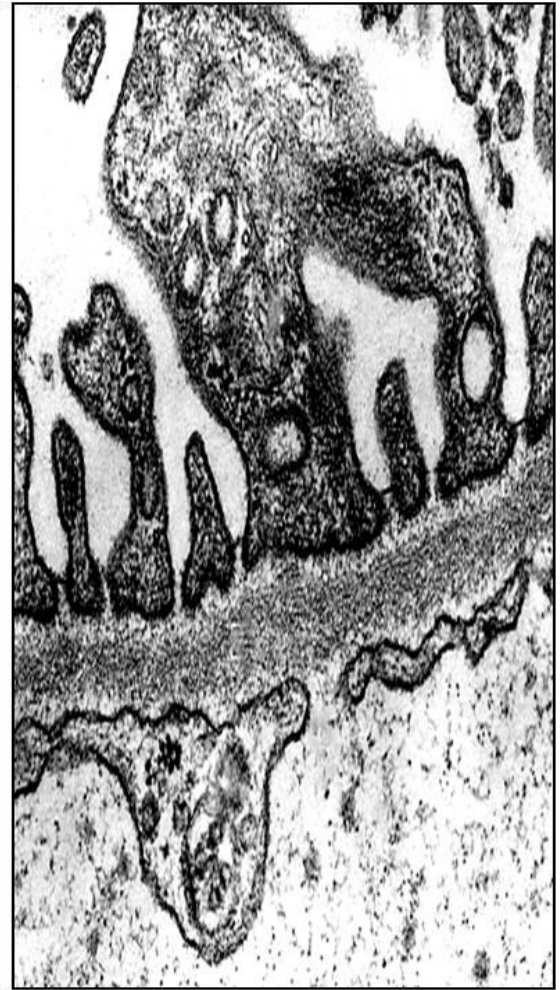
**Mitochondria with tubular
cristae**

Blood renal barrier ("TEM")

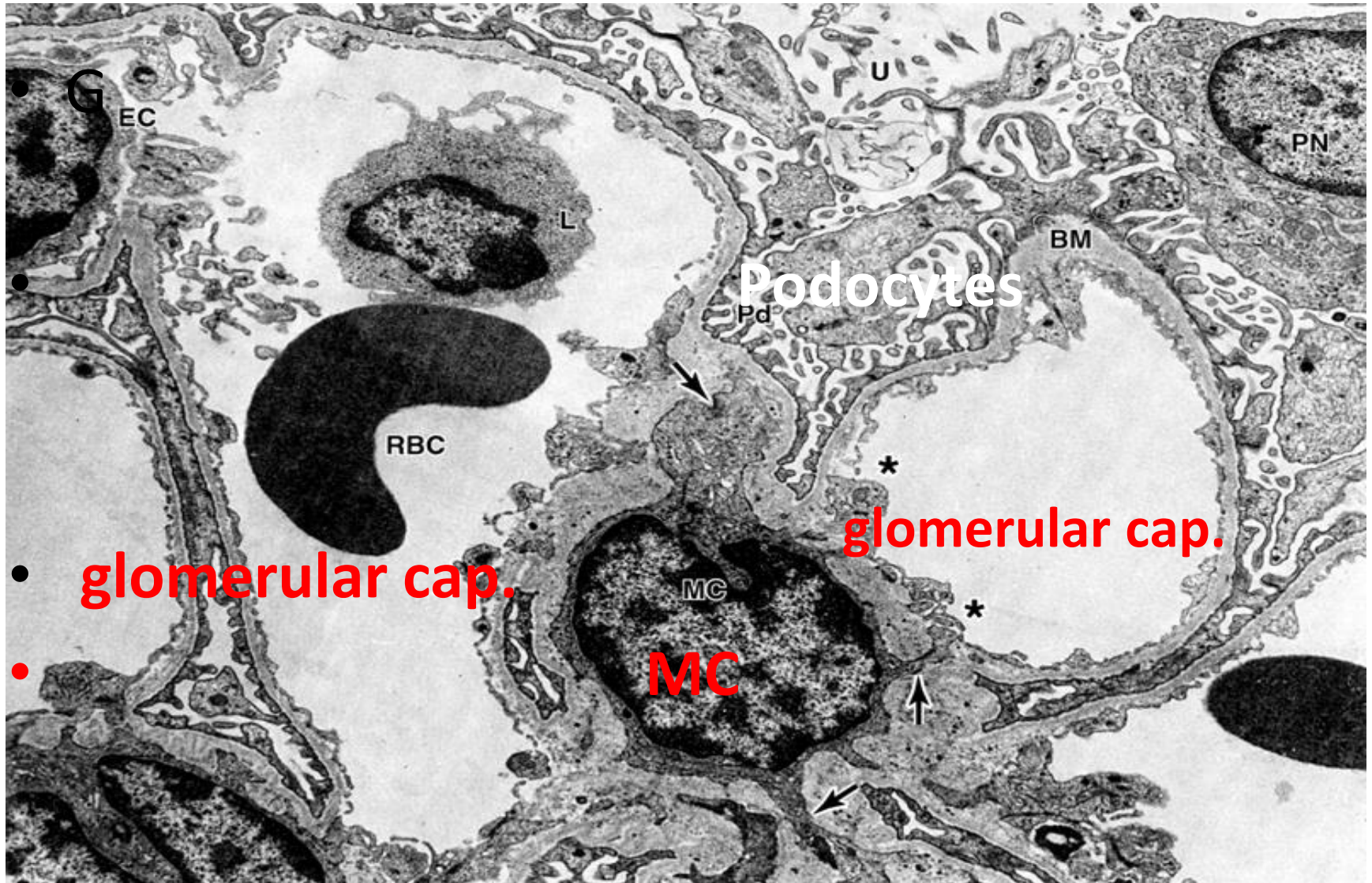


Blood renal barrier ("TEM")

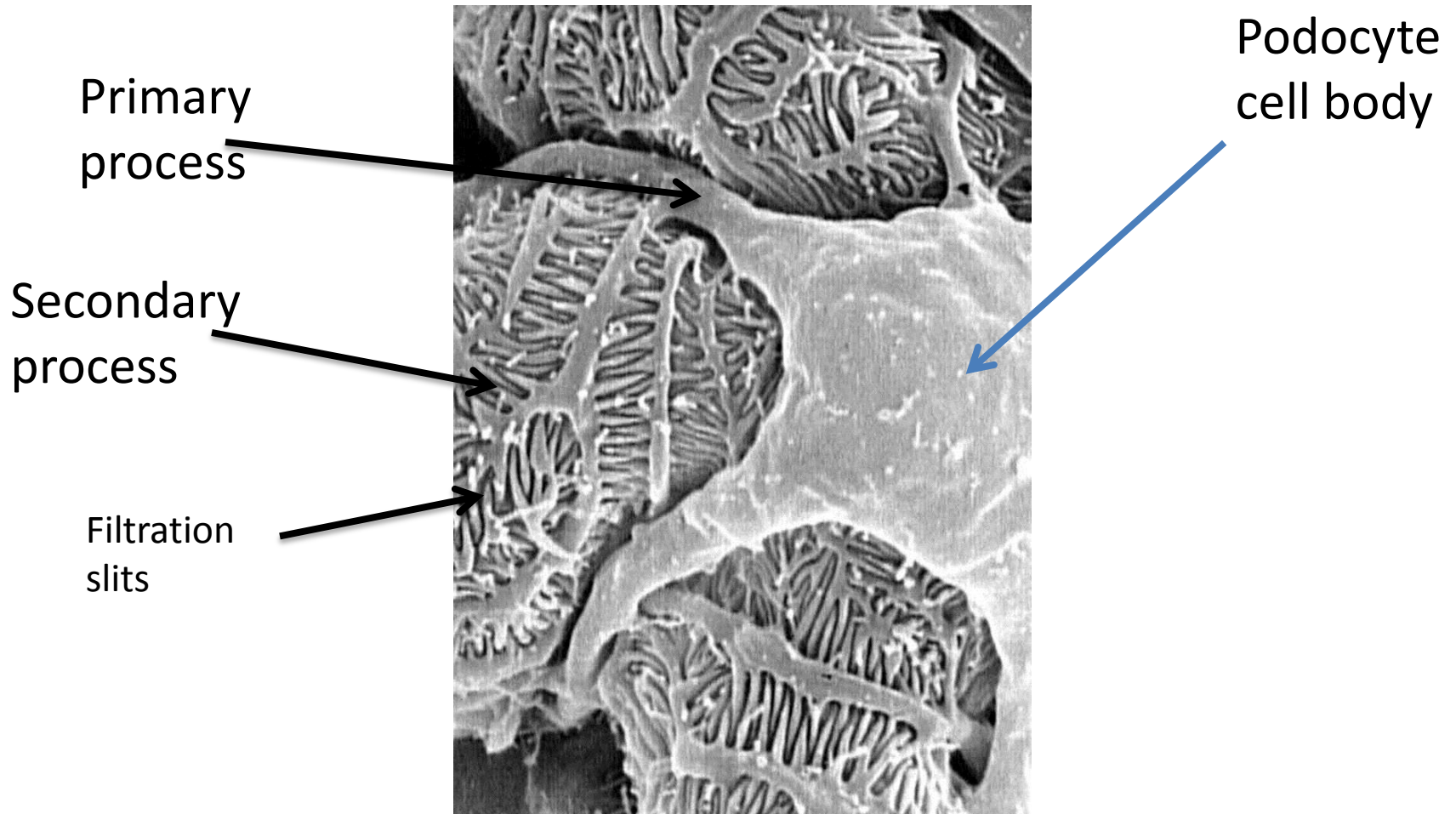




Glomerular capillaries and mesangial cell in between



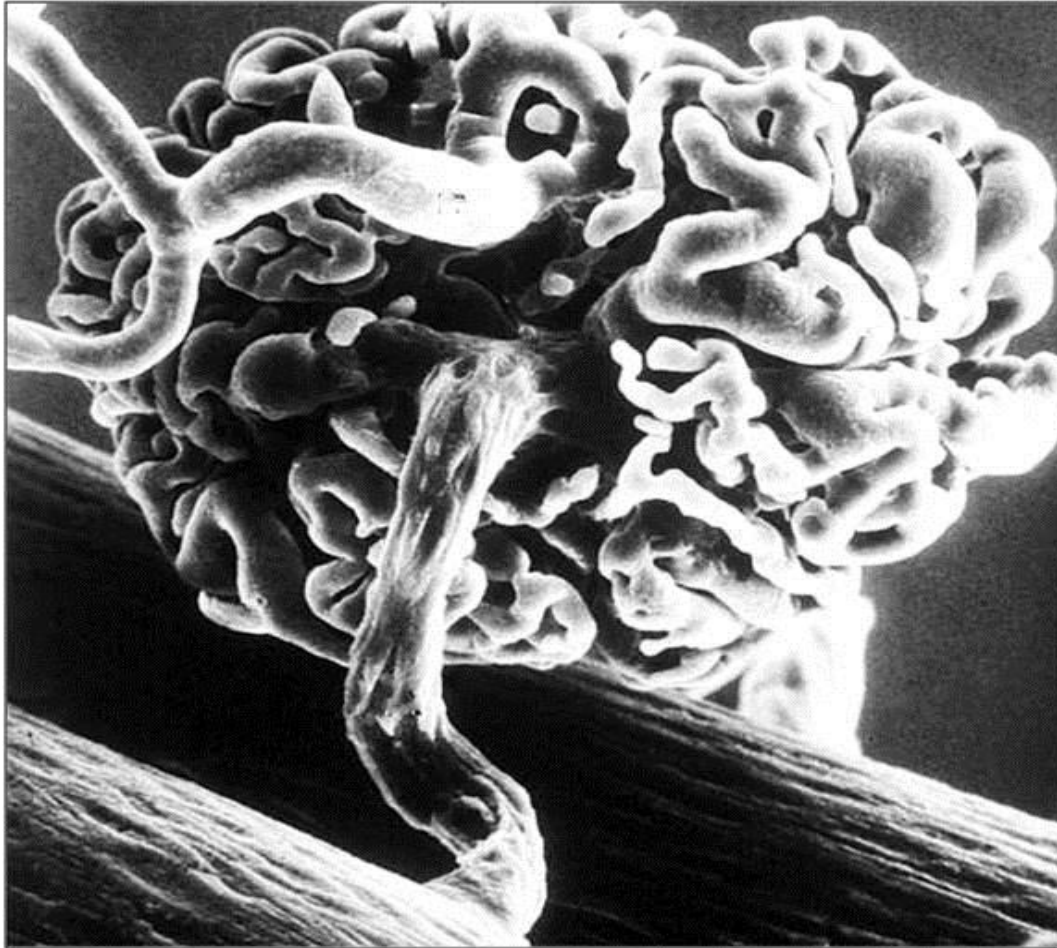
Podocytes (“SEM”)



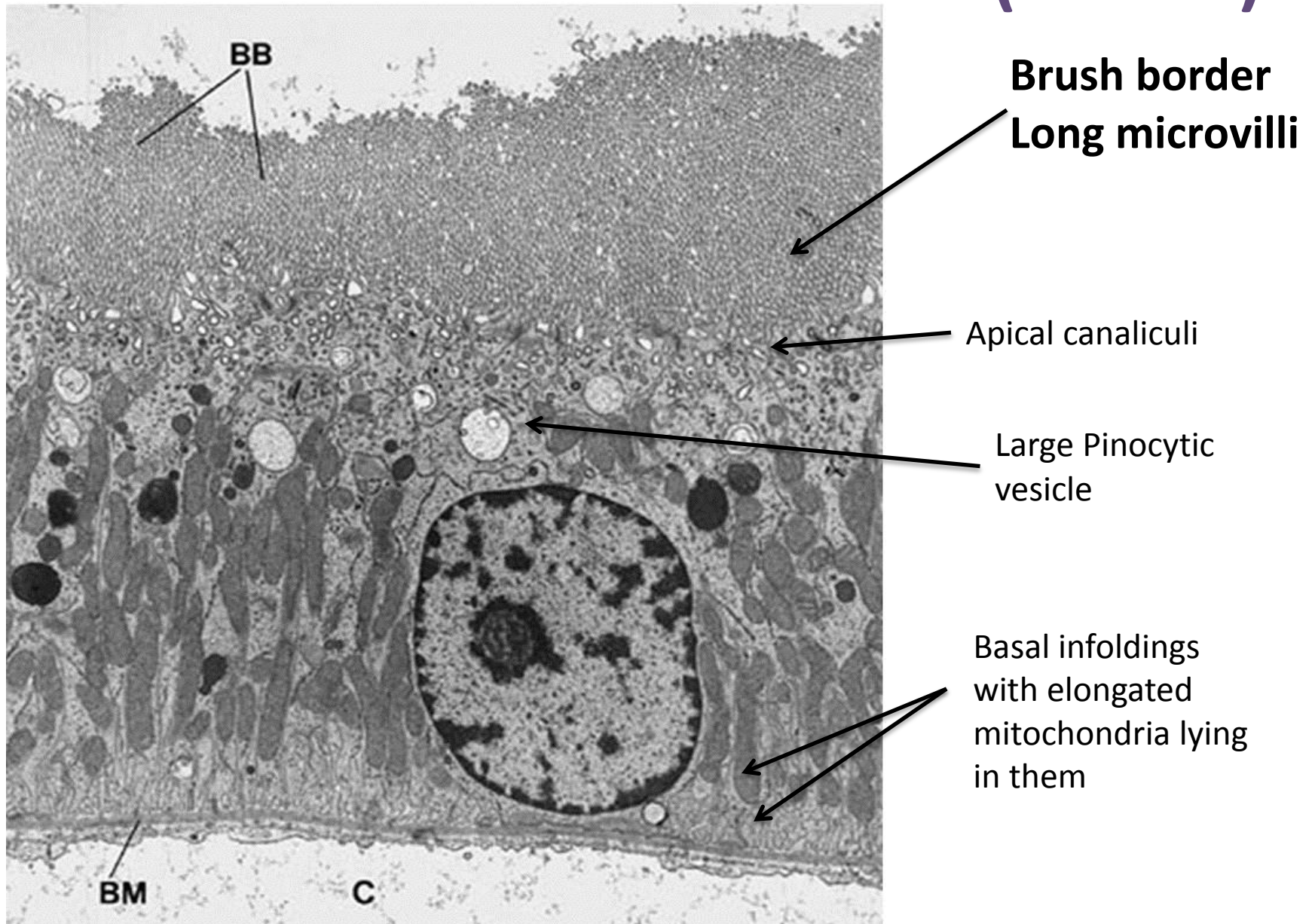


- G : glomerulus
- P : PCT
- D: DCT
- C : capillary
- Arrow urinary pole of renal corpuscle

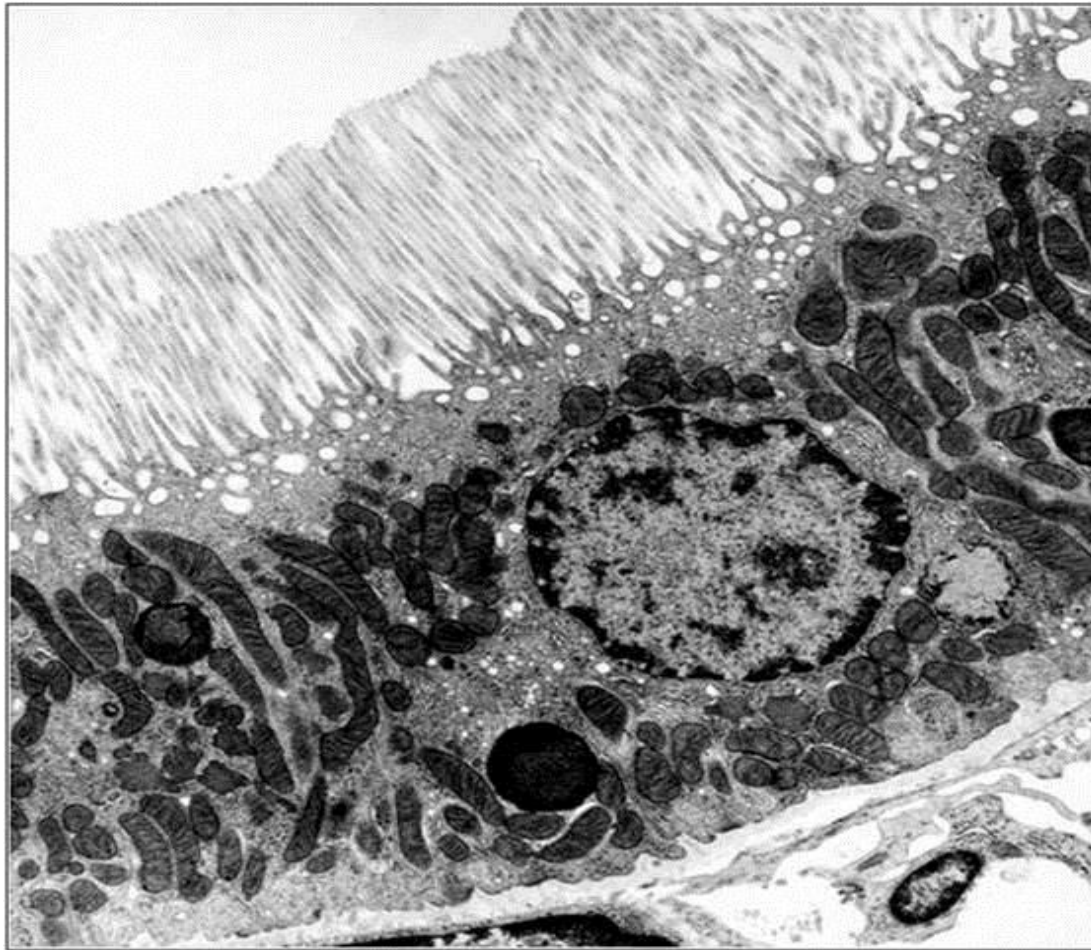
SEM glomerular capillary



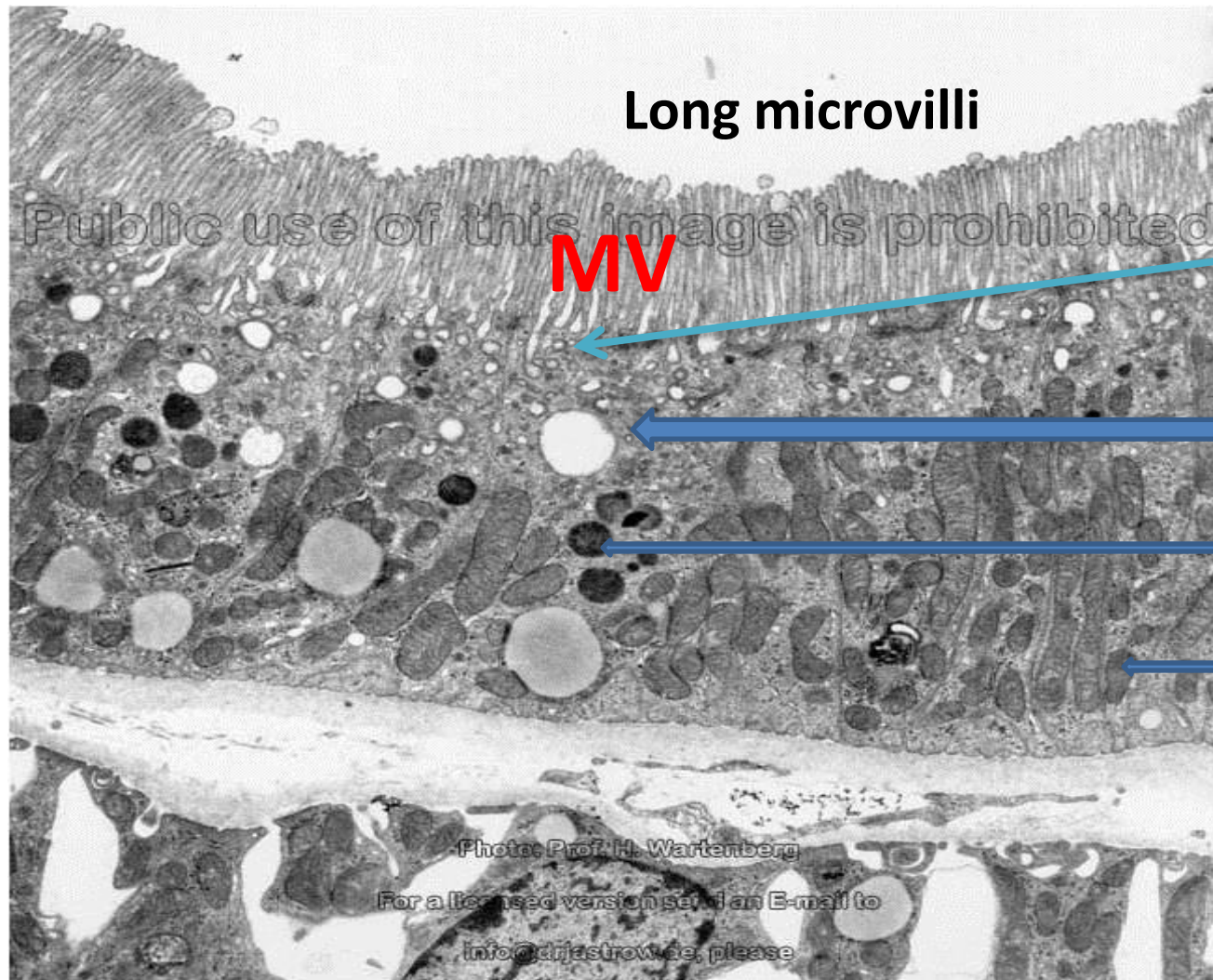
Proximal convoluted tubules (“TEM”)



Proximal convoluted tubules



Proximal convoluted tubules (“TEM”)



Long microvilli

MV

Apical canaliculi

Pinocytic vesicle

Electron dense
Lysosome

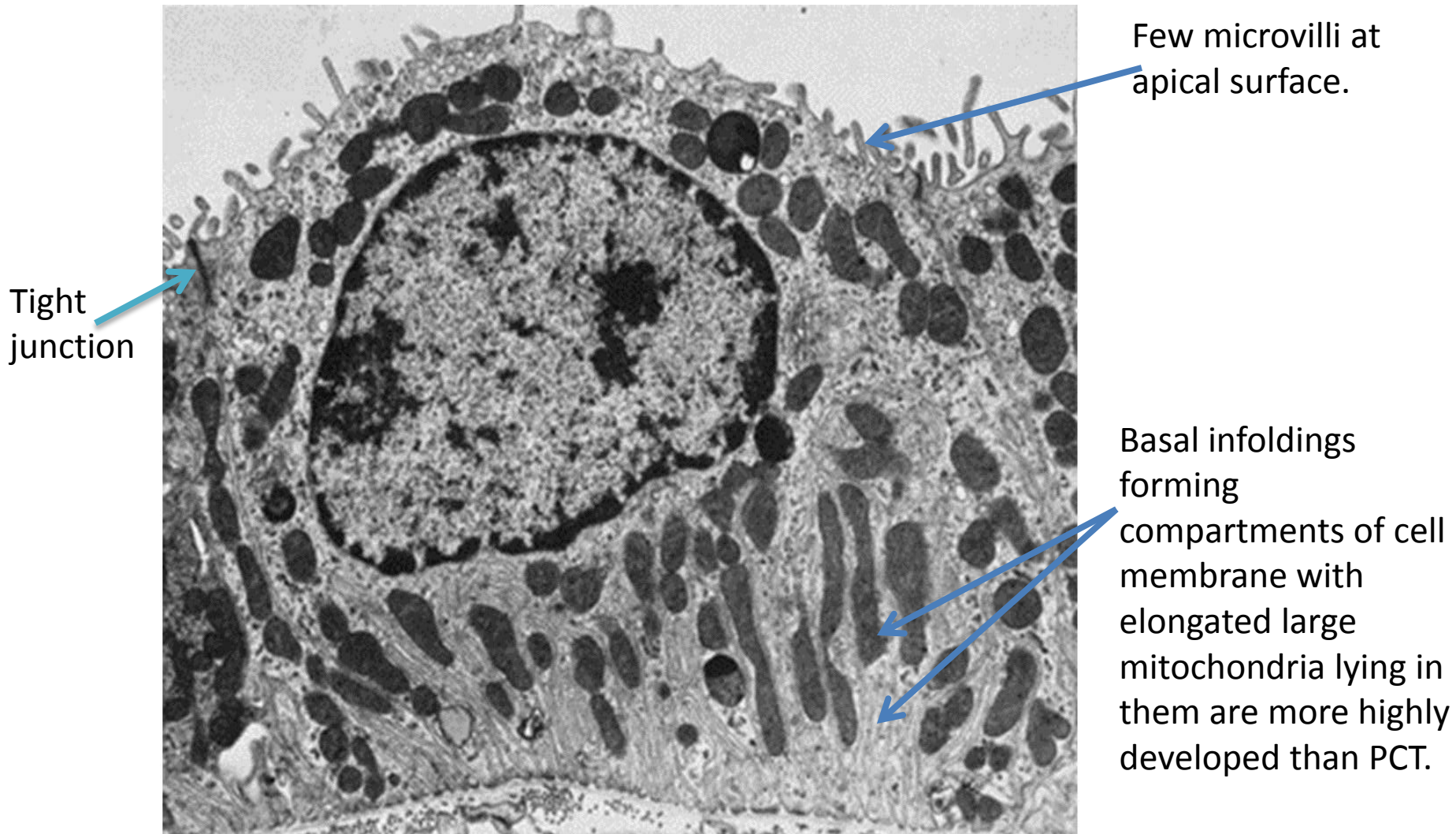
Mitochondria

Photo: Prof. H. Wartenberg

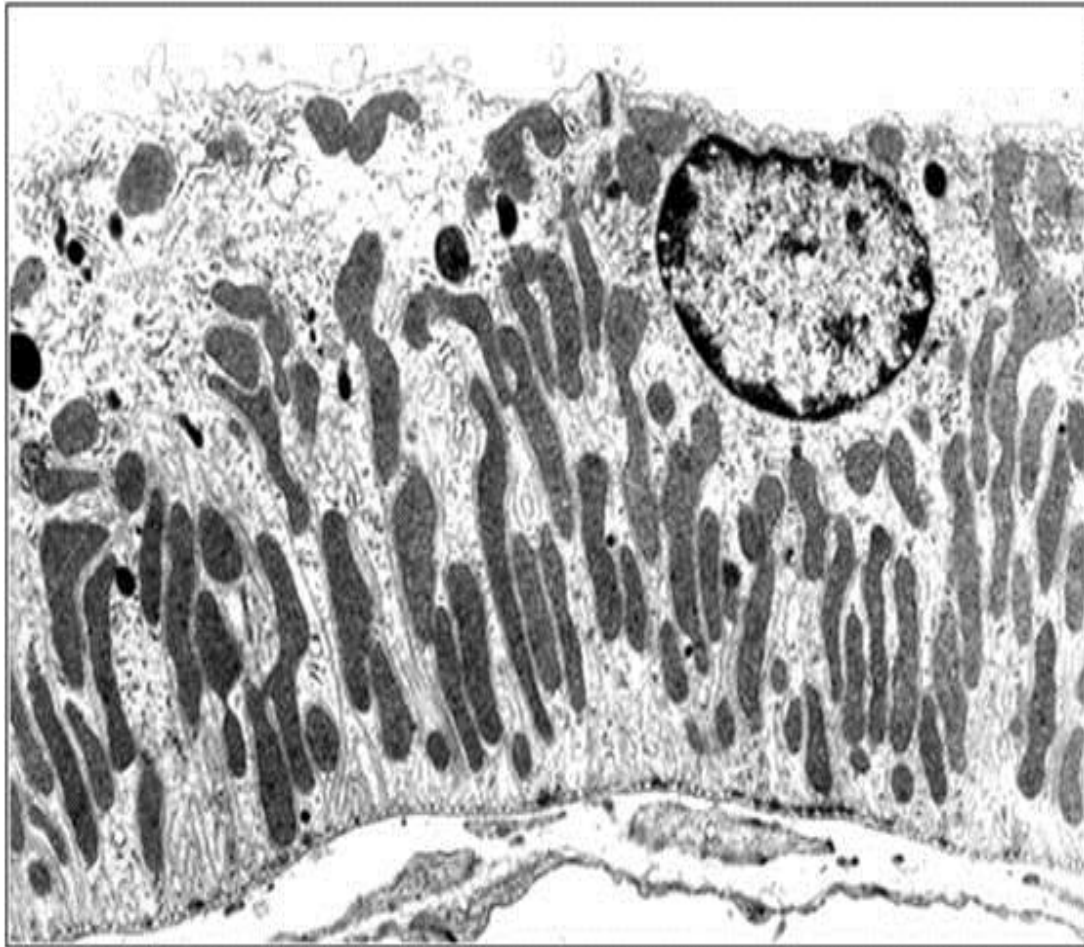
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Distal convoluted tubules (“TEM”)



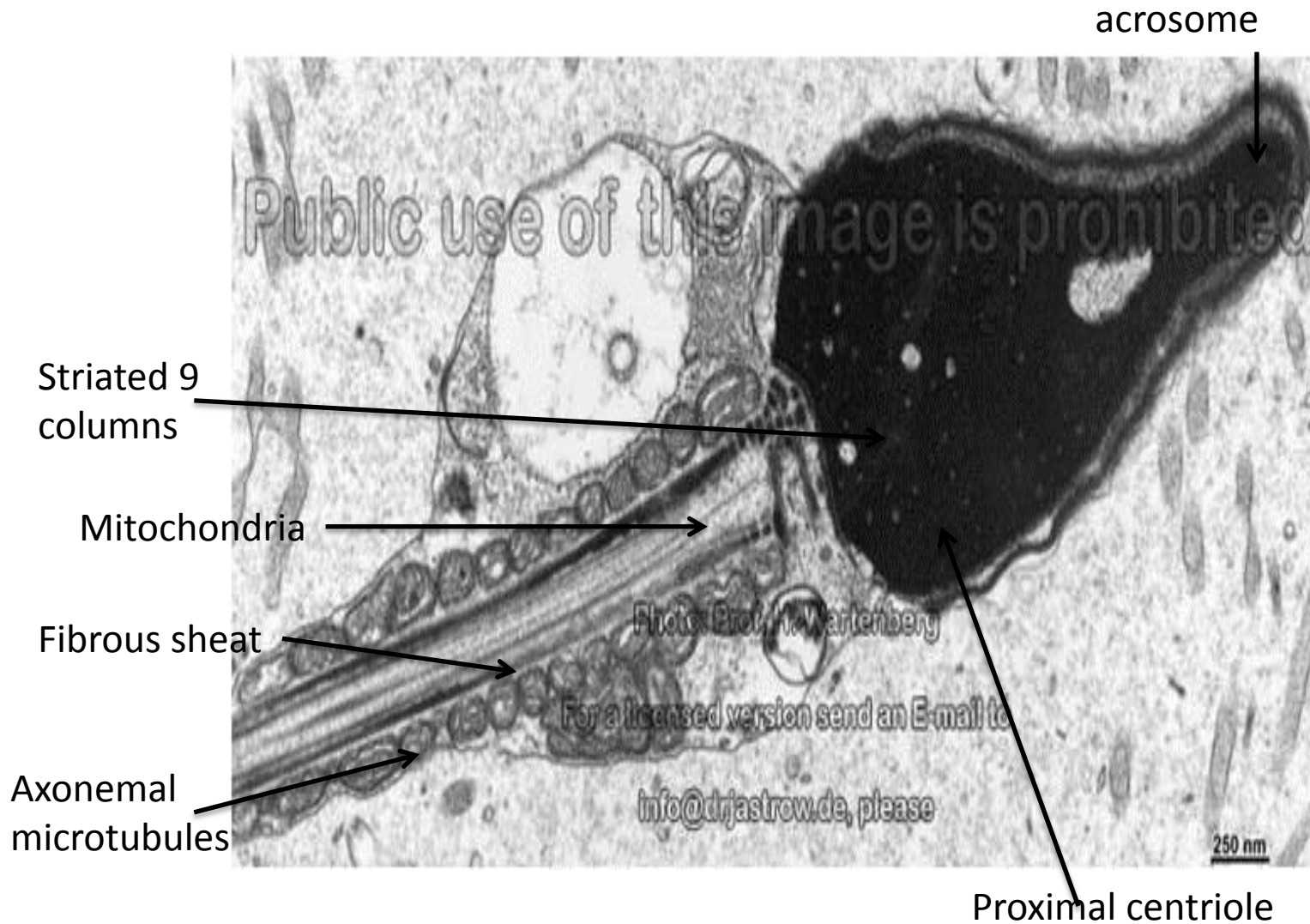
DCT



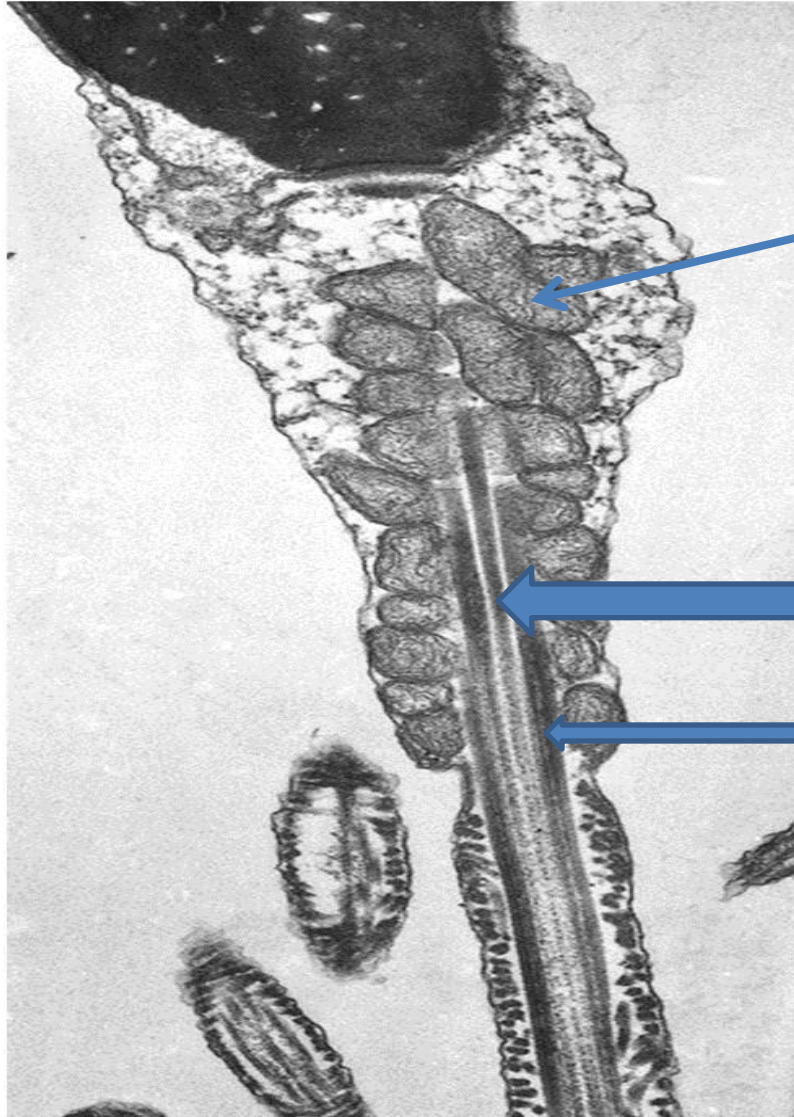
Sertoli cell in seminephrous tubule



Mature Sperm



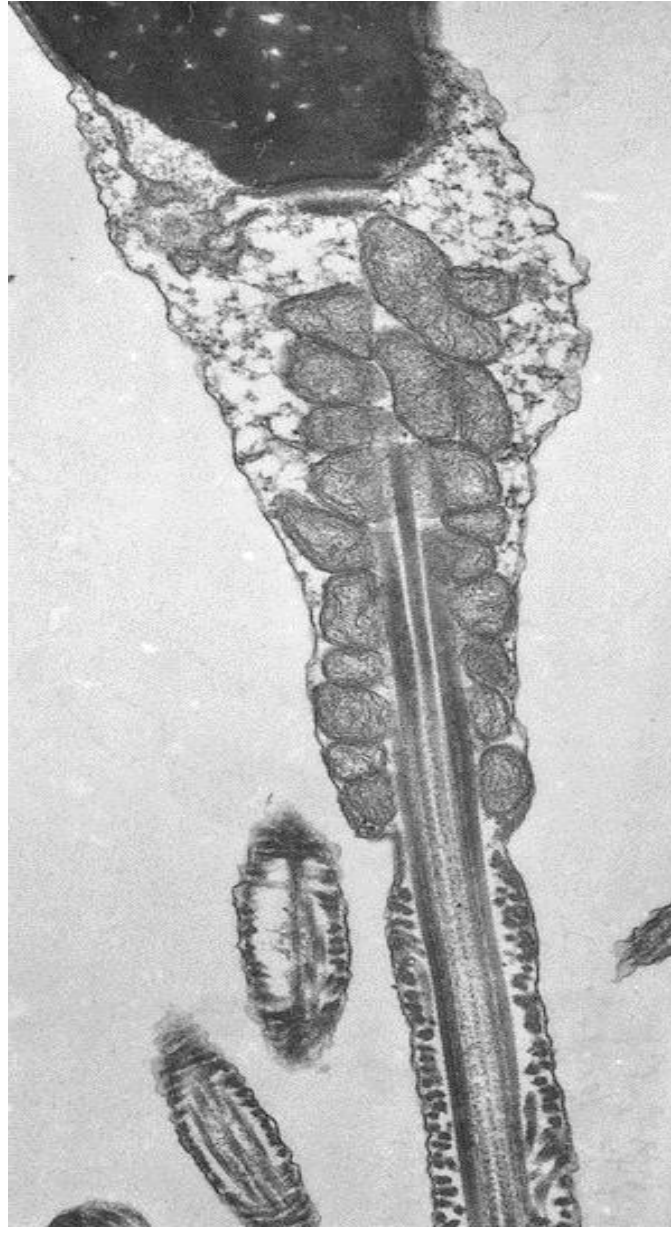
Sperm (middle piece) Longitudinal section (L.S.)



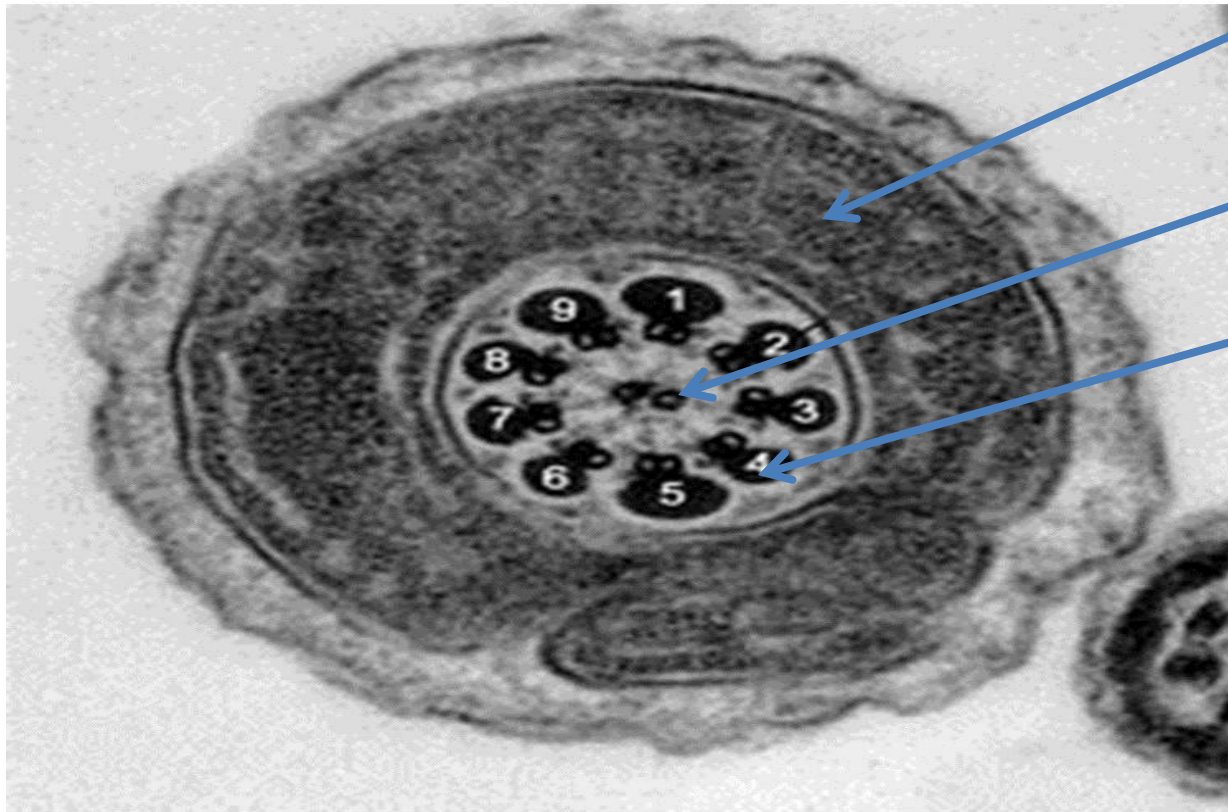
Mitochondria

Flagelium

Longitudinal
fiber



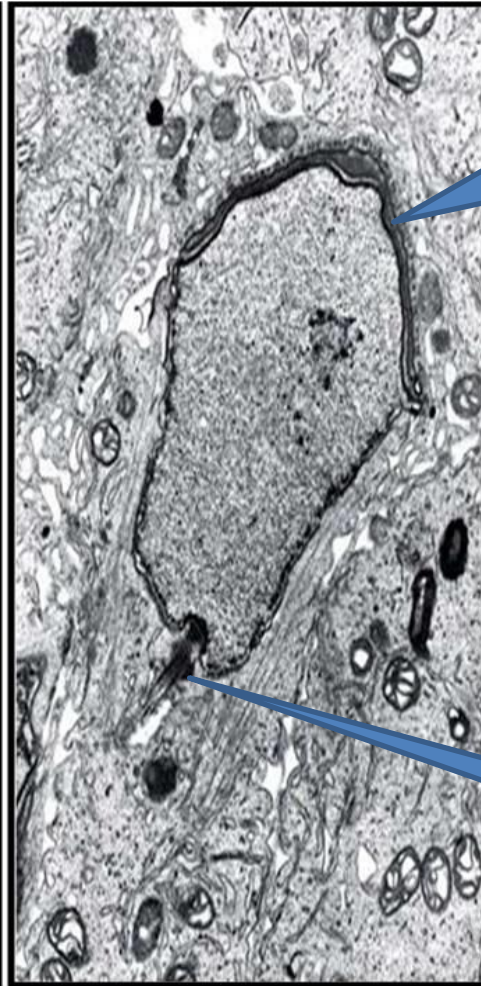
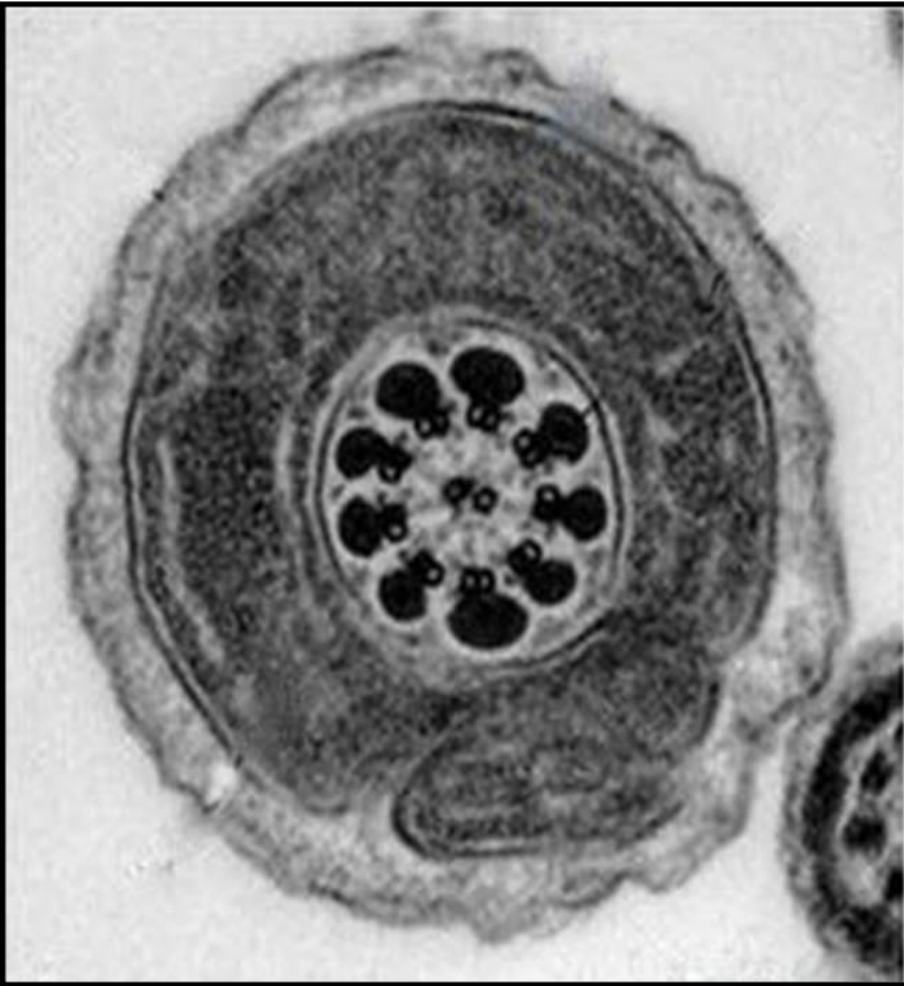
Sperm (middle piece) Transverse section (T.S.)



Elongated mitochondria

Flagellum

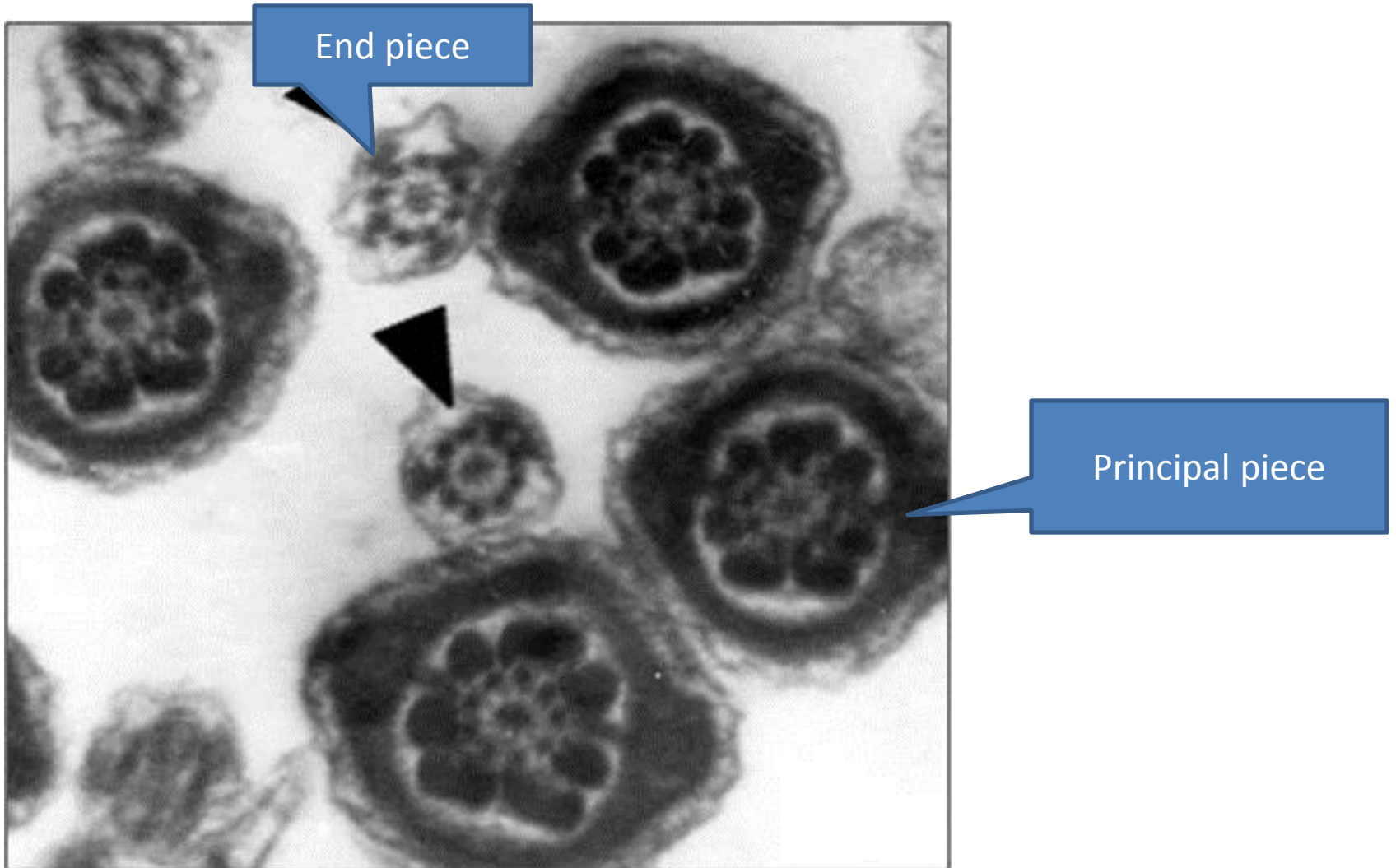
9 coarse longitudinal
fibers.



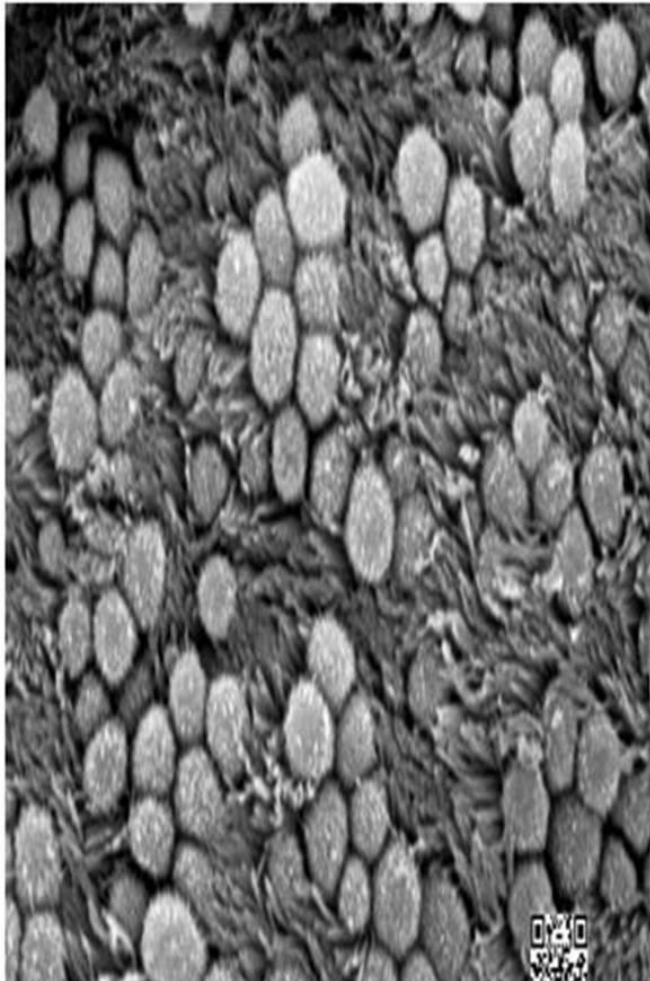
Acrosomal
cap

Basal body of
tail

Tails of sperms



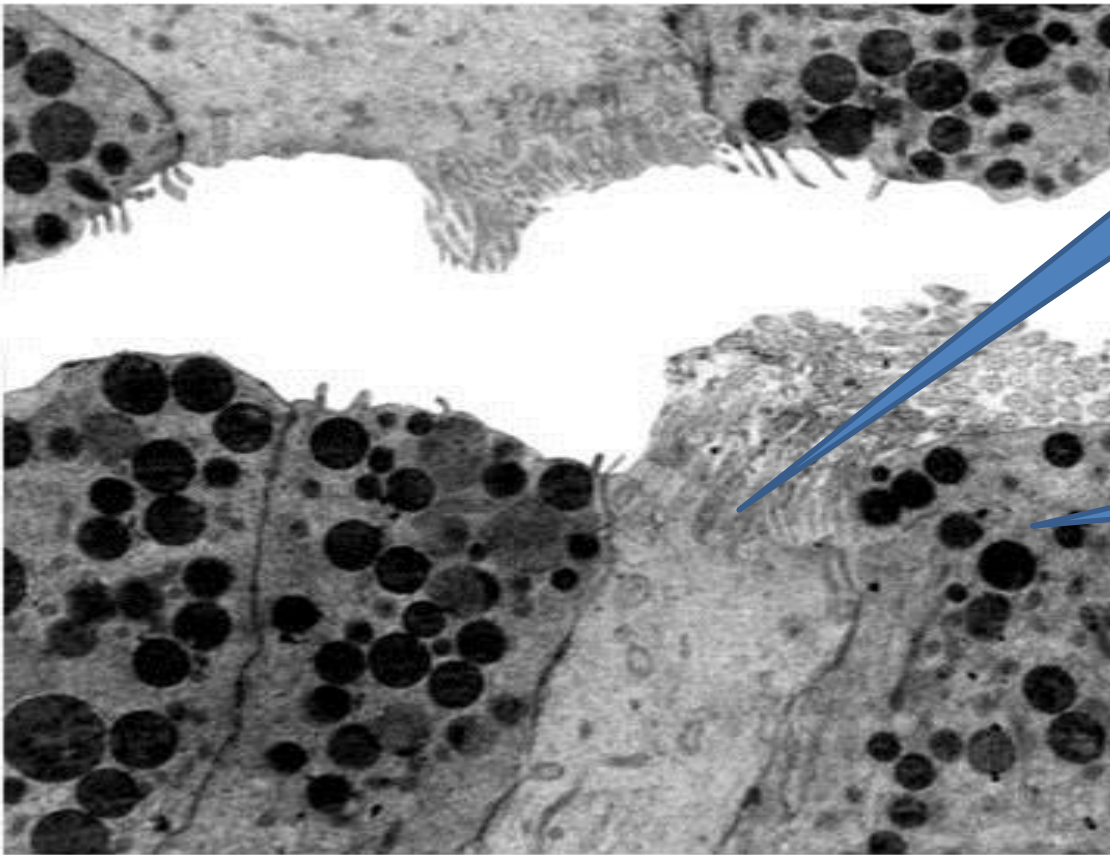
Epithelial lining of fallopian tube



Ciliated
cells

secretory
cells

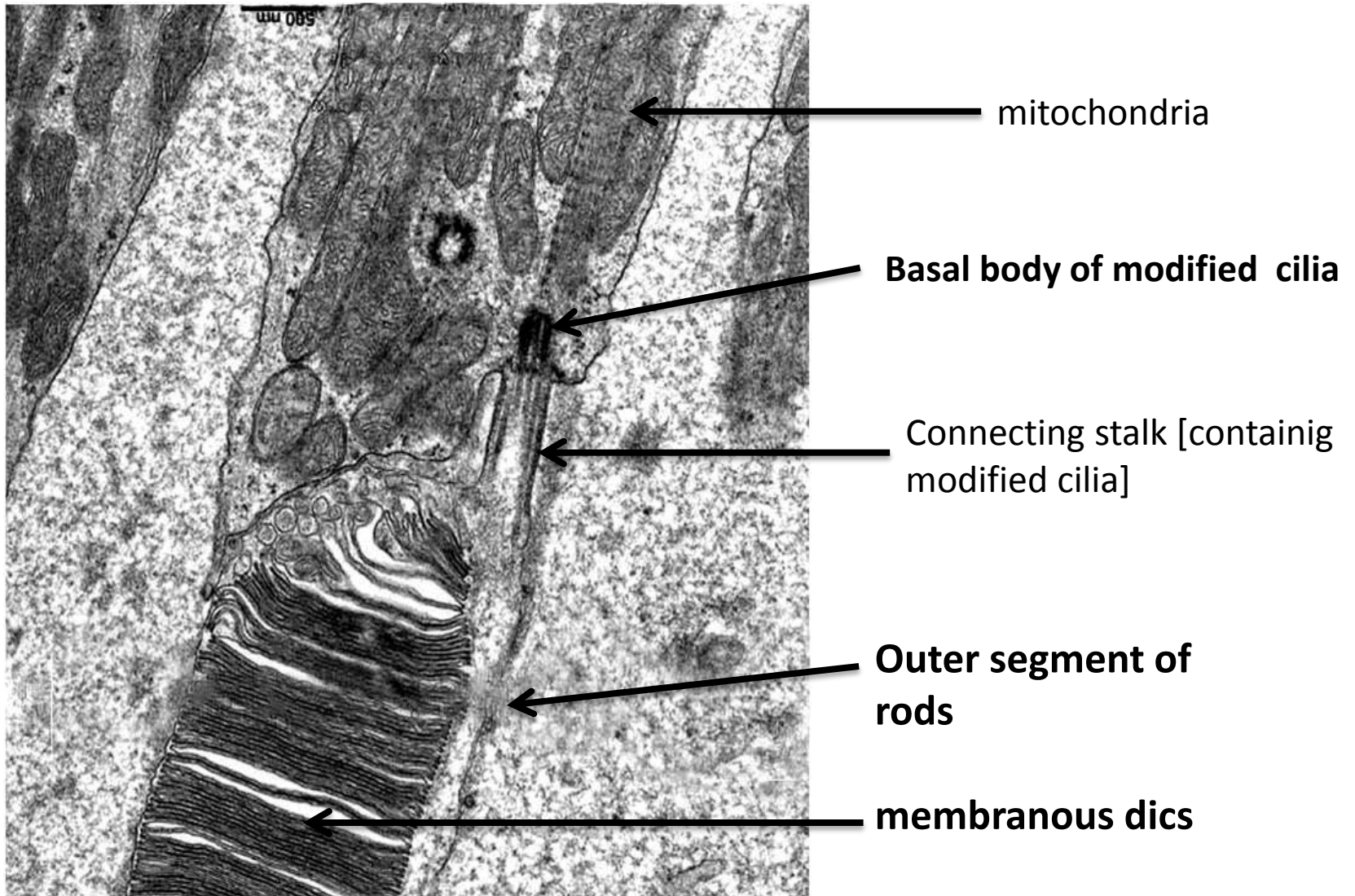
Fallopian tube

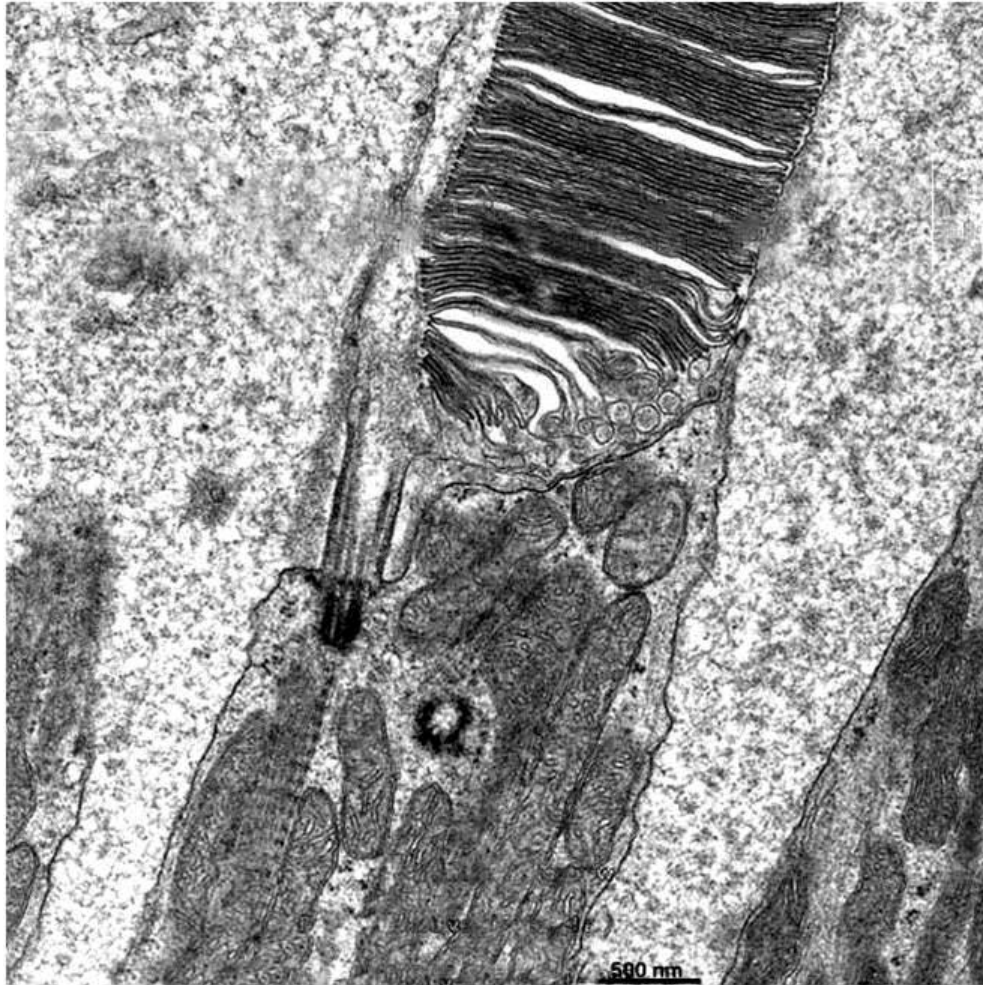


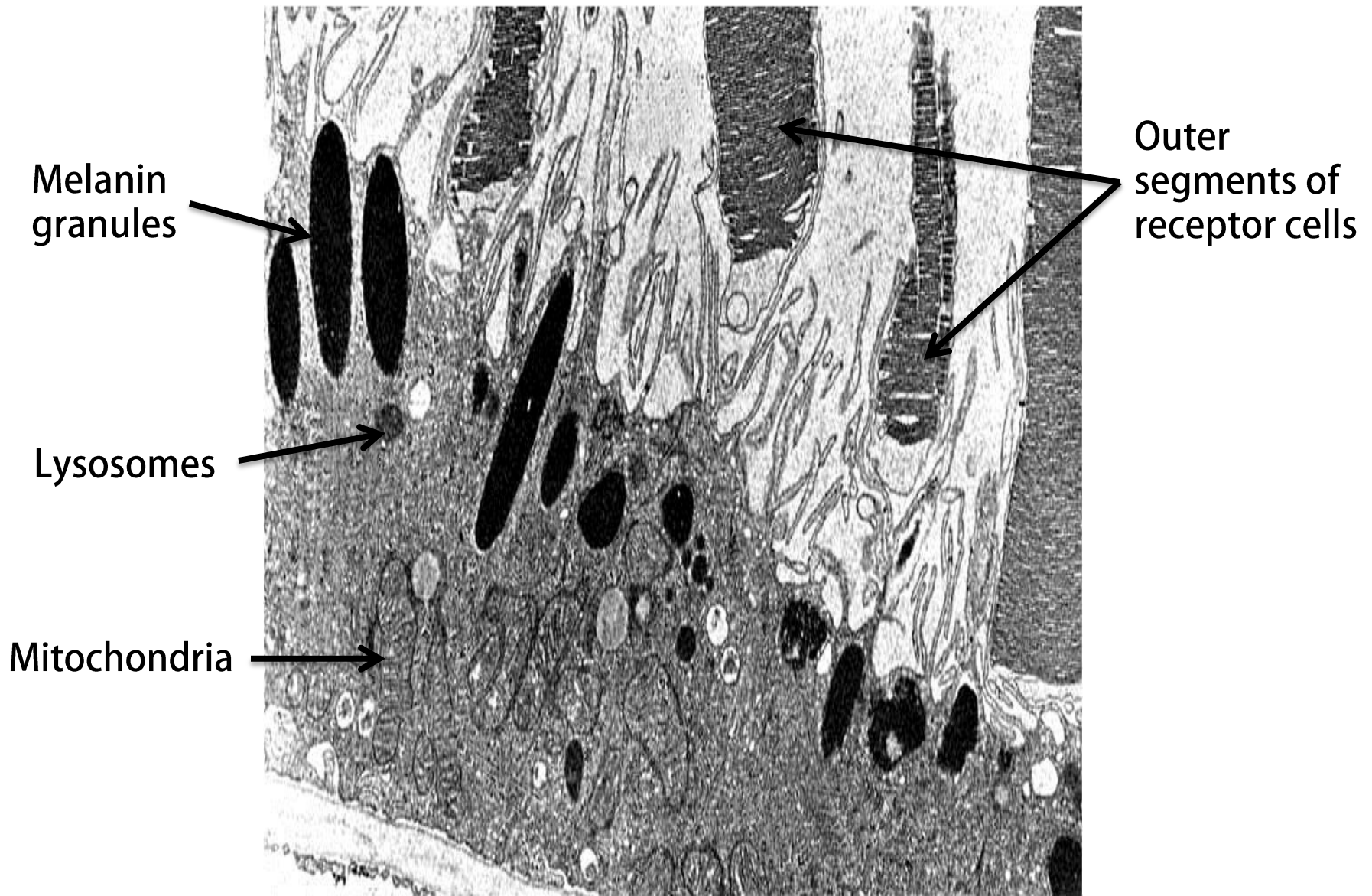
Ciliated cell

Secretory cell

Outer segment of rod

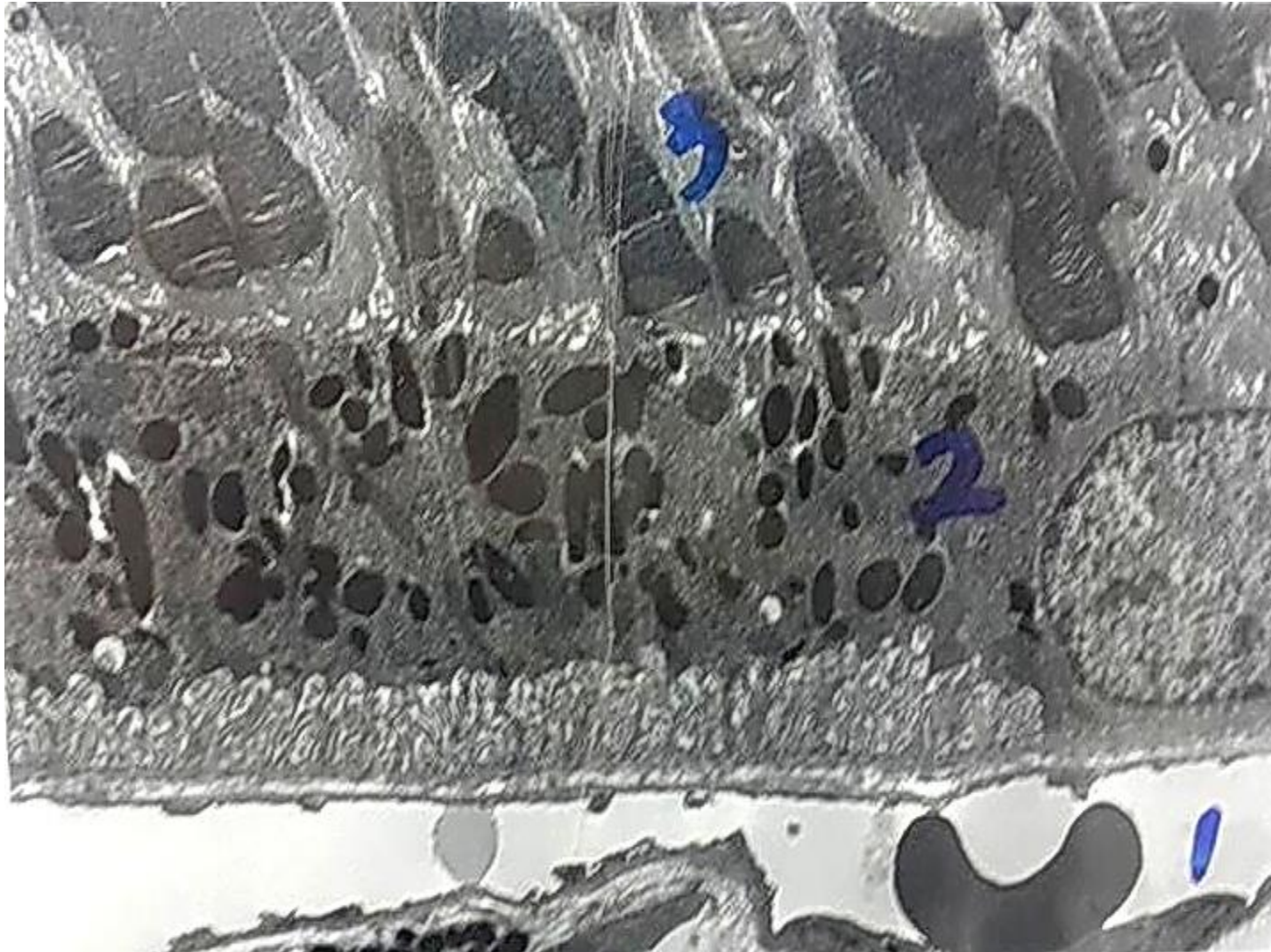






Retinal pigmented epith.

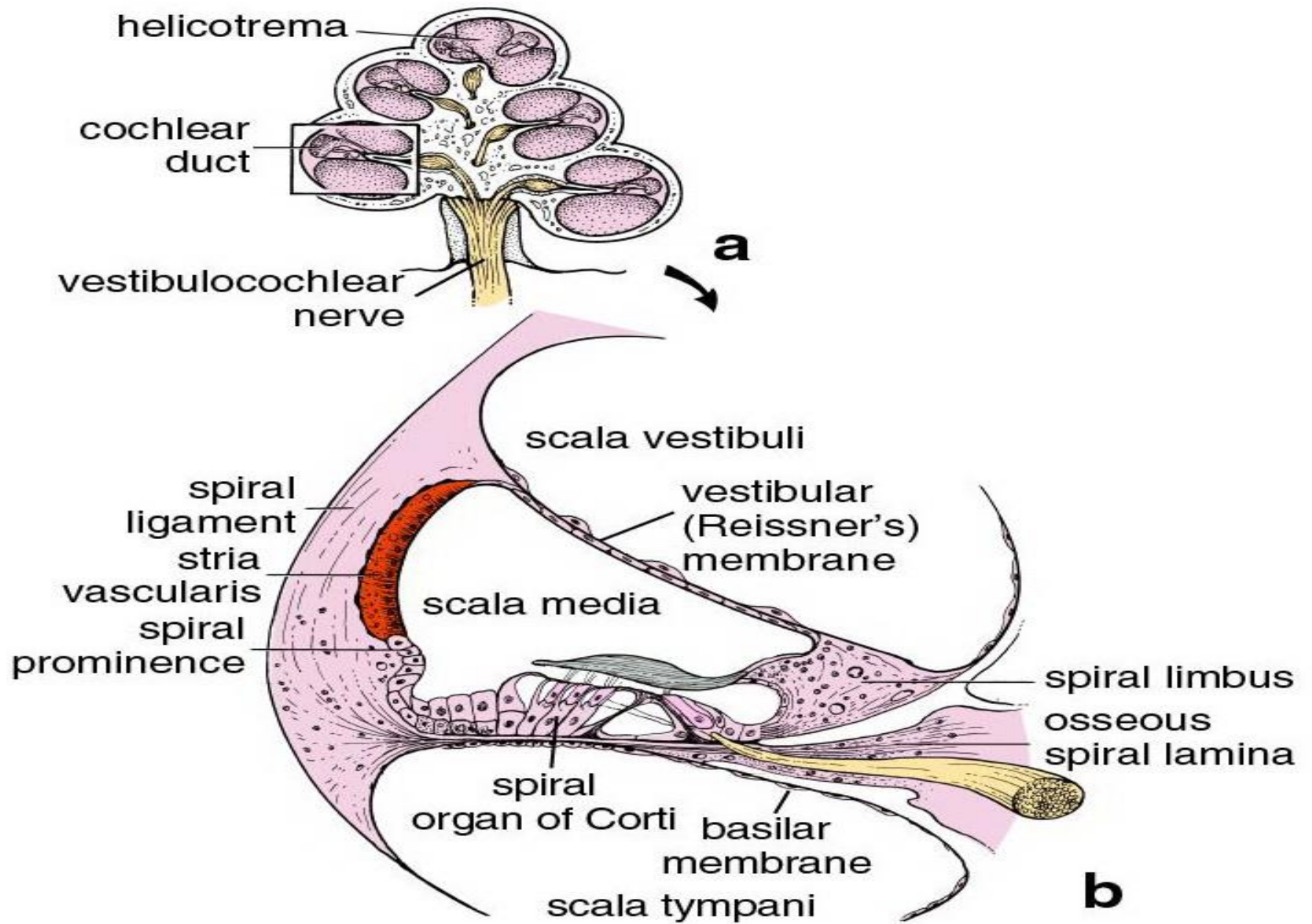
Retina



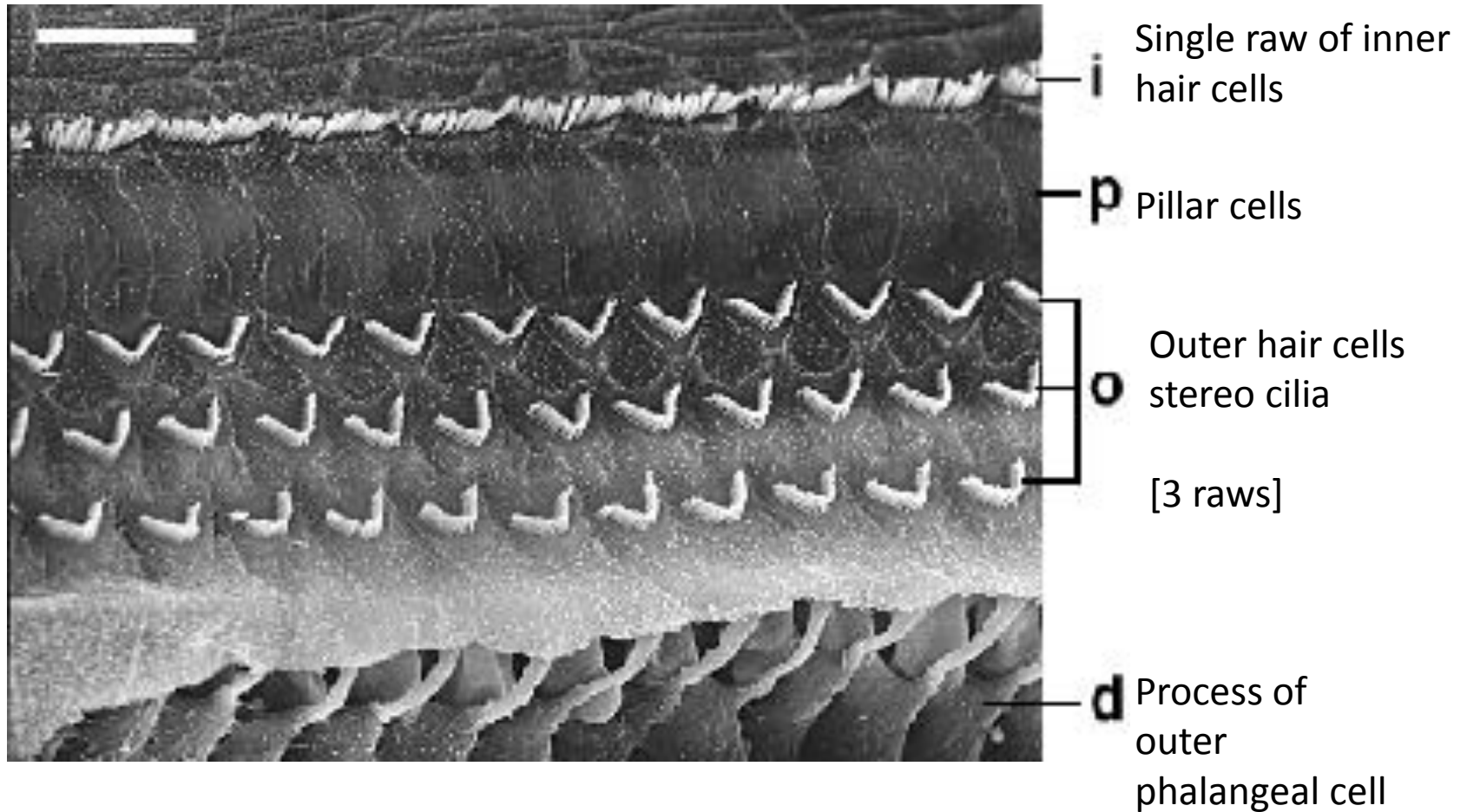
1- choriocapillary

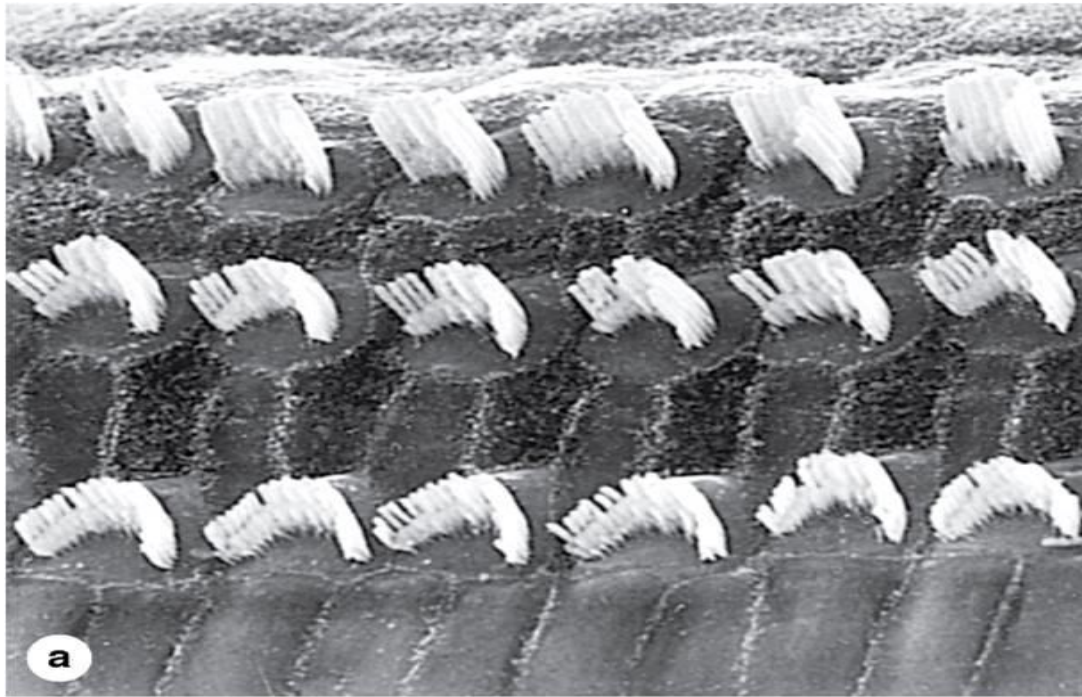
2- pigmented epith.
Cells

3- outer segments of
photoreceptor cells



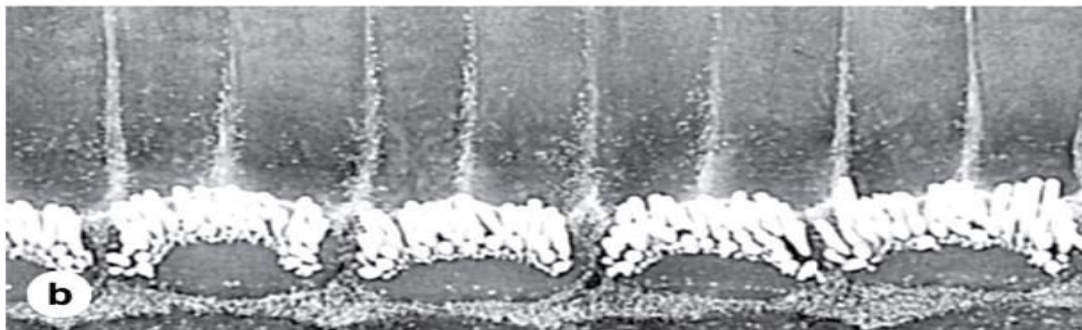
Organ of Corti shows hair cells with stereocilia (SEM)





Outer hair cells
stereo cilia

[3 rows]



stereo cilia
of inner hair cells